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SECRETARY OF THE AIR FORCE

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Maintenance

MANAGEMENT AND MAINTENANCE OF NON-NUCLEAR MUNITIONS

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements Air Force Policy Directive (AFPD) 21-2 *Non-nuclear and Nuclear Munitions*. It establishes Munitions Flight organizational structure and responsibilities and provides inspection, storage, maintenance and accountability procedures. It establishes the foundation for munitions product assurance for non-nuclear munitions and inspection and maintenance of associated Munitions Materiel Handling Equipment (MMHE) and support equipment. It applies to all munitions activities and munitions using organizations across the Air Force. The ultimate success of the Air Force is its ability to provide offensive and defensive measures to meet national objectives and this instruction plays a key role in meeting this goal. Affected units have 120 days from the date of this publication to implement this instruction or submit waivers or deviations to the criteria. This publication requires the collection and/or maintenance of information protected by the Privacy Act of 1974. The authority to collect and/or maintain the records prescribed in this publication is Title 10, United States Code, 8013, Secretary of the Air Force Privacy Act system of records notice F036 AETC R, Student Records, applies Forms and documents affected by the Privacy Act will have appropriate Privacy Act Statements. The reporting requirements in this instruction are exempt from licensing according to Air Force Instruction (AFI) 37-124, paragraphs 2.11.3., 2.11.5., and 2.11.10, *The Information Collections and Reports (ICR) Management Program; Controlling Internal Public, and Interagency Air Force Information Collections.* Maintain and dispose of all records created as a result of prescribed processes in accordance with AFMAN 37-139, *Records Disposition Schedule.* Send comments and suggestions for improvements on AF Form 847, **Recommendation for Change of Publication,** through channels, to HQ USAF/ILMW, 1030 AF Pentagon, Washington D.C. 20330-1030. USAF/ILMW and major commands (MAJCOM) will perform an annual review of this instruction at the annual ALLMAJCOM munitions conference. MAJCOMs will collect proposed changes throughout the year and forward recommended changes to all MAJCOMs for coordination and concurrence before submitting to the annual ALLMAJCOM conference.

SUMMARY OF REVISIONS

This document is substantially revised and must be completely reviewed.

This revision incorporates, merges, updates, clarifies and streamlines munitions management and maintenance guidance previously included in: AFI 21-201, *Inspection, Storage and Maintenance of Non-nuclear Munitions;* AFI 21-202, *Combat Ammunition Procedures;* AFI 21-203, *Deployable Ammunition Operations Procedures* and AFI 21-206, *The Global Asset Positioning Program*. It adds; the Munitions Flight organizational chart (**Figure 1.1.**), the Munitions Flight element alignment matrix (**Figure 1.2.**), Air Staff responsibilities (paragraph **2.1.**), HQ Air Force Materiel Command (AFMC) responsibilities (paragraph **2.3.**), Air Logistics Centers responsibilities (paragraph **2.4.**), HQ Air Education and training Command responsibilities (paragraph **2.5.**), HQ Standard Systems Group (SSG) responsibilities (paragraph **2.6.**), Base/Unit responsibilities (paragraph **2.7.**), the Combat Munitions Training Program (CMTP) (paragraphs **2.9.2.3.** and **5.3.**), the Controlled Inventory Item Code (CIIC) and Risk Category conversion matrix (**Table 2.1.**), Air Force Combat Ammunition Center (AFCOMAC) mission and responsibilities (**Chapter 6**), the Combat Munitions Reliability Inspection (CMRI) (paragraph **7.3.3.**), management of AF Intermodal containers (paragraph **7.4.**), conventional munitions product assurance (**Chapter 8**), combat munitions planning (**Chapter 9**), the Munitions Capability Report (**Chapter 10**), the Master Storage Plan (**Chapter 11**), munitions transportation funding (PACER AMMO) (paragraph **15.5.**), the guide for quality control of FV documents (**Table 16.1.**), the Environmental Protection Agency (EPA) Military Munitions Rule (MR) (**Chapter 26**), the time change requisitioning schedules (**Table 31.1.** and **Table 31.2.**), Commercial Off The Shelf (COTS) munitions procedures (**Chapter 32**), munitions static display procedures (**Chapter 36**) and AMMO Vision 2010 (**Attachment 2**). It establishes the use of the generic term "automated accounting system" which refers to Combat Ammunitions Systems for the Ammunition Control Point (CAS-A), base (CAS-B), command (CAS-C) and deployable (CAS-D), Joint Ammunition Management Standard System (JAMSS) or future USAF/DoD automated munitions accounting/management systems. It removes munitions inspection technical procedures that are contained in T.O. 11A-1-10, *Munitions Serviceability Procedures.*

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PART 1

MUNITIONS MANAGEMENT

Chapter 1

GENERAL

1.1. Introduction. This instruction contains general information on typical responsibilities and munitions functions. It also contains the Air Force AMMO Vision 2010 in **Attachment 2** identifying strategic areas and planning strategies for developing effective and efficient munitions support today and well into the future.

1.1.1. When requirements of a specific item technical manual conflict with this instruction, the specific technical manual holds precedence. Units will notify the MAJCOM munitions staff of conflicts and submit technical improvement reports when appropriate.

1.1.2. Requests for deviations or waivers from the requirements of this instruction will be sent to the MAJCOM munitions staff for approval consideration. Unit requests for deviations or waivers must contain justification and expected date of compliance. The logistics group commanders or equivalent will sign and submit all deviation or waiver requests.

1.1.3. Test or trial programs deviating from this regulation require MAJCOM approval.

1.1.4. MAJCOM approves deviations or waivers solely to provide a grace period for units unable to immediately comply with existing guidance. MAJCOMs will forward to HQ USAF/ILMW all approved deviations or waivers to this instruction.

1.2. Munitions Flight. Responsible for the control, accountability, storage, shipping and receiving, inspection, maintenance, assembly and delivery of conventional, precision guided, nuclear munitions, and naval mines. The Flight manages and maintains all assigned tools, test, munitions handling equipment and conventional Naval mine clips. It also administers, operates and maintains the Combat Ammunitions System-Base and Deployable (CAS-B and D). Munitions Flights are typically composed of three sections: Production, Materiel and Systems. The Munitions Flight organizational chart and element alignment are in **Figure 1.1.** and **Figure 1.2.**

1.2.1. Flight Organizational Structure. Specific responsibilities of Flight Commander, Munitions Flight Chief, Section Superintendents, and Element Supervisors are outlined in this instruction.

1.2.2. Section Organizational Structure. Sections will be aligned in accordance with **Figure 1.2.**

1.2.2.1. Production Section. This section assembles, disassembles and maintains conventional munitions, missiles, containers, dispensers, assigned MMHE, naval mine clips and training items, both nuclear and conventional. If a nuclear maintenance section is formed, they maintain all nuclear weapons trainers, except for BDU-38s. Specific responsibilities for the nuclear maintenance element are found in AFI 21-204, *Nuclear Weapons Procedures (FOUO).*

1.2.2.2. Materiel Section. The materiel section stores, handles, inspects, ships, receives, and accounts for, conventional munitions, containers, dispensers, and training items and coordinates transportation.

1.2.2.3. Systems Section. Plans, schedules, controls, and directs all munitions activities. Administers CAS systems, manages mobility and training programs.

1.2.2.4. Strategic/Nuclear Weapons Maintenance Section. Refer to appropriate MAJCOM supplement guidance.

Figure 1.1. Munitions Flight Organizational Chart.

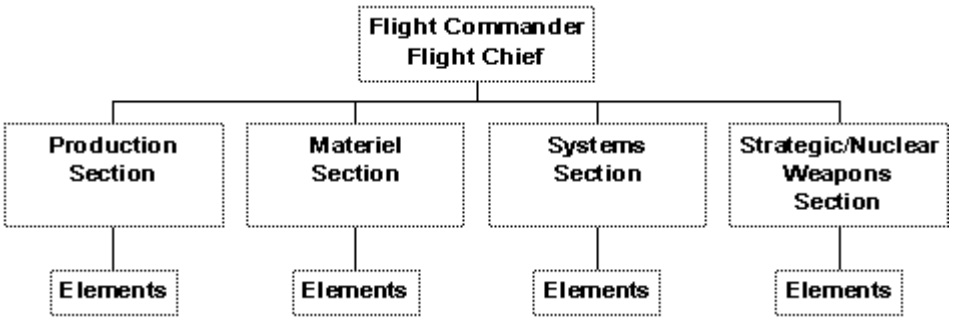


Figure 1.2. Element Alignment Matrix.

Element	Production	Materiel	Systems	Strat/Nuc
PGM Maintenance	X	X		
Conventional Maintenance	X	X		
Equipment Maintenance	X			X
Line-Delivery	X	X	X	
Inspection	X	X		
Storage and Handling		X		
Operations		X	X	
Control			X	
CAS-B			X	
Combat Plans/Mobility			X	
Training			X	
Plans & Scheduling			X	
Vault Maintenance	X			X
Tools, Test and Handling Equipment Maintenance				X
Nuclear Maintenance				X
SWIM/NOCM Accountability				X
Air Launched Missile Maint				X

Element	Production	Materiel	Systems	Strat/Nuc
Reentry Vehicle/System Maint				X
VACE				X
Analysis				X
Weapons Support				X

1.2.3. Munitions Elements include but are not limited to the following: Storage, Operations, Inspection, Shipping and Receiving, Maintenance, Precision Guided Munitions, Handling/Line Delivery, Munitions Support Equipment Maintenance, Munitions Control, Plans and Scheduling, Combat Ammunitions System, Combat Plans/Standardization (Mobility and Training), Analysis, Air Launch Missile, Nuclear Maintenance, Re-entry Vehicle/Re-entry Systems Maintenance, Support, and Verification and Checkout Equipment (VACE).

Chapter 2

RESPONSIBILITIES

2.1. Air Staff.

2.1.1. HQ USAF/XOR and ILM:

2.1.1.1. Identify WRM munitions positioning objectives.

2.1.1.2. Co-Chair the Global Asset Positioning (GAP) conference to include the integration of MAJCOM priorities for development of the GAP Munitions Movement Plan (MMP) based on Air Force priorities.

2.1.1.3. Develop GAP policy.

2.1.1.4. Assess USAF capability to meet program objectives.

2.1.1.5. Approve any MAJCOM recommended adjustments to the MMP priorities.

2.1.1.6. Obtain XO and IL approval of the GAP MMP.

2.1.1.7. Approve all uses of Project Code 736, Unprogrammed, and notify HQ AFMC/DRAW for tracking purposes.

2.1.1.8. Co-Chair Munitions Allocation Conference during which munitions are allocated to the MAJCOMs.

2.1.2. ILM is the program element monitor for the Afloat Prepositioning Fleet (APF) program. They justify and defend funding for ship leases and for the maintenance, test, surveillance, inspection and rotation of assets on the APF through the Global Reach-Global Power resource allocation process.

2.1.3. HQ USAF/ILMW:

2.1.3.1. Schedule, chair, and conduct:

2.1.3.1.1. The worldwide munitions manager's conference (ALLMAJCOM) each fiscal year.

2.1.3.1.1.1. An annual 2W0XX Utilization and Training Workshop (U&TW) will be conducted in conjunction with the ALLMAJCOM. Periodically audit formal training courses and recommend changes.

2.1.3.1.1.2. All MAJCOM and Air National Guard (ANG) Munitions Functional Managers are voting members and make up the ALLMAJCOM executive committee and U&TW conferences.

2.1.3.1.2. Air Force Munitions Logistics Steering Group (AFMLSG) and acts for the AFMLSG when it is not in session.

2.1.3.1.3. Combat Ammunition System (CAS) Functional Requirement Board (FRB).

2.1.3.1.3.1. Establish work priorities for HQ Standard System Group (HQ SSG) CAS program functions and approves software configuration changes to CAS.

2.1.3.1.3.2. Advise and direct the CAS Program Manager and oversee program execution.

2.1.3.1.4. Submits an annual schedule (1 Jan through 31 Dec) of all future conferences, Product Improvement Working Groups, AFMLSG meetings, FRB meetings, and U&TWs to the Air Armament Center (AAC/WM) not later than 1 Dec of each year.

2.1.3.1.4.1. Appoints AAC/WM as the gatekeeper for the combined AMMO conference schedule.

2.1.3.2. Act as the functional office of primary responsibility (OPR) for automated accounting systems.

2.1.3.3. Staff the Air Force Combat Support Center (CSC) and guide the Air Force Ammunition Control Point (ACP) and Tactical Missile Control Point (TMCP) during crises and contingencies.

2.1.3.4. Implement DoD policy to the Environmental Protection Agency's (EPA) Military Munitions Rule (MR), dated 1 July 1998.

2.1.3.5. Air Staff point of contact for matters relating to all conventional munitions to include inventory.

2.1.3.6. The primary OPR approval for release of munitions to agencies outside the Air Force.

2.1.3.7. Ensures AFCOMAC mission of providing training to 2W0 personnel is not encroached upon by local, NAF or MAJCOM missions without prior coordination with HQ USAF/ILMW. Chair's AFCOMAC Board of Advisors at annual curriculum review conference. Ensures necessary funds are available for the school. Provides required course direction between reviews.

2.1.4. HQ USAF/XORW:

2.1.4.1. Forecast Standard Air Munitions Package (STAMP) and Standard Tank, Rack, Adapter, and Pylon Package (STRAPP) requirements through OO-ALC/WM.

2.1.4.2. Validate STAMP/STRAPP requirements approved at the GAP Conference. Sends a validation message to address indicator group (AIG) 10121 and publishes the NCAA containing STAMP/STRAPP asset requirements.

2.1.4.3. Air Staff point of contact for matters relating to Air-Intercept-Missile (AIM) and Air-to-Ground Missile (AGM) matters.

2.1.4.4. Develop and publish the Tactical Air Missile Program (TAMP) document.

2.1.4.5. Develop and publish the Non-nuclear Consumables Annual Analysis (NCAA).

2.1.4.6. Chairs Munitions Requirements Conference to validate all Test and Training munitions requirements.

2.1.4.7. Co-Chair Buy Budget Review Conference with HQ USAF/ILSR to address procurement of conventional ground, air-to-ground, Explosive Ordinance Disposal (EOD) munitions, small arms, and associated equipment (excluding missiles).

2.1.5. HQ USAF/XOFX AND HQ AFSFC/SFWC:

2.1.5.1. HQ USAF/XOFX has overall responsibility for programming ground weapons and munitions and associated equipment and providing ground munitions authorizations policy for USAF Active and Air Reserve components.

2.1.5.2. HQ AFSFC/SFWC is the approval authority for out-of-cycle requests. USAF/XOFX and HQ AFSFC/SFWC jointly participate in ground munitions requirements review, allocation, and buy-budget processes.

2.1.6. HQ USAF/ILEV will provide MAJCOMs a list of current AF Thermal Treatment Units (TTU) and their capabilities.

2.2. Major Commands - General.

2.2.1. Publish detailed guidance for munitions organizations with specialized/unique missions, such as Independent Munitions Maintenance Units (IMMU) or Independent Munitions Maintenance Sections (IMMS). The structure of a munitions organization normally consists of a Munitions Flight and is defined in paragraph **1.2.**.

2.2.2. Develop command supplements or directives to implement this instruction.

2.2.3. Host a Senior Munitions Managers Conference for all assigned units. This conference allows munitions managers to exchange information and ideas regarding mission accomplishment. It provides an avenue to discuss management and technical issues that impact mission support and could ultimately affect combat readiness. Conference minutes will be recorded and published within 30 days and action items monitored until resolved. Issues that cannot be resolved or affect other commands will be referred to the Annual Product Improvement Working Groups and/or to the ALLMAJCOM conference.

2.2.3.1. Submits an annual schedule (1 Jan through 31 Dec) of all future command conferences, Product Improvement Working Groups, etc., to AAC/WM not later than 1 Dec of the previous year.

2.2.4. Have sole authority to implement options permitted by United States Air Force directives pertaining to conventional munitions.

2.2.5. Establish an In-Progress Inspection (IPI) Program, when required.

2.2.6. Develop command munitions policy for the use of War Reserve Materiel (WRM) and/or training munitions, as applicable. Including:

2.2.6.1. Live and inert missiles (or electrical simulators) of the same type are not commingled on an aircraft for any purpose. Live missiles of one type and inert versions of others may be loaded on an aircraft only when considered essential to unit training operations. Ensure air-training missiles mirror the parent tactical missile IAW item Technical Order (T.O.).

2.2.6.2. Munitions will not be electrically tested unless specifically required by the item technical order.

2.2.7. Ensure Precision Guided Munitions (PGM) test equipment under their control is maintained in the highest state of readiness possible to support worldwide contingencies.

2.2.8. Review and forward Air Force Technical Order (AFTO) Form 22, **Technical Order Improvement Report and Reply**, to all MAJCOMs for coordination and concurrence before submitting to the Air Logistics Center (ALC), on T.O.s:

2.2.8.1. 11A-1-10, *Munitions Serviceability Procedures.*

2.2.8.2. 11A-1-63, *Munitions Assembly Procedures.*

2.2.8.3. 11-1-38, *Positioning and Tie Down Procedures - Non-nuclear Munitions.*

2.2.8.4. 11A-1-46, *Fire Fighting Guidance, Transportation, and Storage Management Data.*

2.2.8.5. 21M-1-101, *Reliability Asset Monitoring System.*

2.2.9. All MAJCOM, AFRC, and ANG Munitions Functional Managers are voting members and make up the ALLMAJCOM executive committee and U&TW conferences.

2.2.9.1. Functional Managers (FM) will provide representatives to working groups established by the AFMLSG and ALLMAJCOM.

2.2.10. Perform staff field visits to ensure units are adequately organized and staffed.

2.2.10.1. Develop a command inspection checklist on all munitions functions for use during staff visits.

2.2.11. Review all munitions outsourcing documents to ensure minimum requirements are identified for proposed and renewed munitions activities contracted units.

2.2.11.1. Establish minimum surveillance requirements for all contracted munitions activities.

2.2.11.2. Munitions staffs will determine experience levels and grade restrictions for Quality Assurance Evaluators for all contracted munitions activities.

2.2.12. Develop and submit budget requirements for second destination transportation (SDT) funds to support movement of munitions to HQ AFMC/DRA by 1 March.

2.2.13. Ensure no one releases munitions and explosives items to agencies or individuals outside the Air Force without prior approval from HQ USAF/ ILMW.

2.2.14. Coordinate requests for Stock Record Account Number (SRAN/DoDAAC) additions, deletions, and changes.

2.2.15. Send requests to OO-ALC/WM to add complete round codes to the Air Force standard munitions configuration table in the complete round dictionary (CRD).

2.2.16. Review munitions availability and allocation forecast to develop a call-forward schedule according to mission planning, storage capacity, and munitions requirements.

2.2.17. Coordinate with gaining forces to validate requirements, store and preposition materiel, prepare for activation of deployed location, and deployment.

2.2.18. May establish theater STAMP and STRAPP-type programs.

2.2.19. During GAP conference:

2.2.19.1. Provide command stockpile status to include storage capability limitations, concerns, vision and overall health of the stockpile.

2.2.19.2. Determine positioning of theater in-place stocks.

2.2.19.3. Provide movement priorities.

2.2.19.4. Provide forecast of intra-command realignments for Peacetime Operating (PTO) munitions.

2.2.20. Screen requisitions to ensure only approved GAP MMP are forwarded to item managers.

2.2.21. Obtain prior approval from HQ USAF/XORW for use of Project Code 736, Unprogrammed.

2.2.22. Provide costing data for Outside the Continental United States (OCONUS) port handling and theater realignments to HQ AFMC/DRAW.

2.2.23. Ensure all subordinate bases establish and maintain stock levels consistent with the current command and AF positioning objective.

2.2.23.1. Ensure bases are not requisitioning more than their allocations.

2.2.23.2. Redistribute excesses within the commands total allocations.

2.2.23.3. Reconcile base and command balances with CAS A.

2.2.24. Establish or waive inventory months.

2.2.25. Act as the command WRM Commodity Manager for WRM munitions.

2.2.25.1. Ensure publication of the munitions War Consumables Distribution Objective (WCDO) or similar document.

2.2.25.2. Notify units of changes in allocations approved by Air Staff.

2.2.25.3. Ensure all bases and activities authorized WRM munitions, including tactical missiles, and CAT B mobility munitions, load WRM authorizations and levels using the master National Stock Number (NSN).

2.2.25.4. Monitor the management of WRM munitions maintenance and handling equipment. Ensure all mission essential equipment levels are published in applicable allowance sources.

2.2.26. Develop and manage the command Program Element Code (PEC) 28030 budget.

2.2.26.1. Develop planning, programming, and implementation actions.

2.2.26.2. Budget for MAJCOM Inspection and CAS training courses.

2.2.26.3. Budget for any command-directed relocation or resizing of CAS activities.

2.2.27. Assist with the development and improvement of training courses and materials.

2.2.27.1. Audit formal training courses and recommend changes.

2.2.28. Provide the CAS Program Management Office (PMO) with personnel as needed to help develop and evaluate requirements and to test and validate software.

2.2.29. Determine and establish procedures and training for Emergency Destruction of Materiel (EDM) when required.

2.3. HQ Air Force Materiel Command (AFMC).

2.3.1. Establish the Ogden Air Logistics Center (OO-ALC)/WM and Warner Robbins Air Logistics Center (WR-ALC)/LKG as distinct operational entities. Maintain, equip, and staff these functions with munitions and transportation personnel.

2.3.2. Ensure worldwide non-nuclear munitions asset visibility.

2.3.3. Implement GAP strategy and policy and manages PACER AMMO.

2.3.3.1. Host the GAP conference.

2.3.3.2. Conduct annual sustainability assessments.

2.3.3.3. Assess capability to execute GAP decisions.

2.3.3.4. Designate executing agents responsible for APF, STAMP/STRAPP and CONUS depot storage programs.

2.3.3.5. During the GAP Conference, in coordination with USAF/ILMW and XORW, integrate MAJCOM movement priorities based on XORW-provided Air Force priorities into the GAP MMP.

2.3.3.6. In coordination with OCONUS commands, cost out MMP funding requirements and advocate requirements through the budgetary process.

2.3.3.7. Advise MAJCOMs and Centers of funds availability and which MMP movements are authorized to execute.

2.3.3.8. Provide PACER AMMO status report to MAJCOMs, at AFMLSG and annual GAP Conference.

2.3.3.9. Develop and coordinate policy guidance and revisions as required.

2.3.3.10. Track all munitions movements by project code using transportation tracking automated system and CAS data.

2.3.3.11. Monitor shipments using the “Unprogrammed” project code 736.

2.3.3.12. Provide personnel to perform maintenance, inspections and asset rotation for the APF program.

2.3.3.13. Provide funding and Munitions Systems Specialists (Air Force Specialty Code 2W0X1) personnel for deployable port teams in support of the APF program.

2.3.3.14. Forecast requirements to HQ USAF/ILM and ILS for funding to perform APF maintenance, inspections and asset rotation during crossloads to meet annual program objective memorandum and budget estimate submission cycle.

2.3.4. Develop a long-term master demilitarization and disposition plan for the USAF.

2.3.5. The Air Armament Center (AAC/WM) at Eglin AFB is the gate keeper for the annual AMMO conference schedule. AAC/WM will:

2.3.5.1. Collect annual schedules from air staff, MAJCOMs, ALCs, and CAS PMO.

2.3.5.2. Review all events and publish a tentative combined schedule for user review and changes. Changes will be made as needed and a final annual AMMO Conference schedule will be published on 1 Jan of each. Schedule will be sent to all users or will be posted to the AAC/WM webpage.

2.4. Air Logistics Centers.

2.4.1. Host Product Improvement Working Groups (PIWG) for assigned weapons systems.

2.4.1.1. Submits an annual schedule (1 Jan through 31 Dec) of all future conferences, Product Improvement Working Groups, GAP, etc., to AAC/WM not later than 1 Dec of each year.

2.4.2. In coordination with all MAJCOM munitions staff, OO-ALC/WM, WR-ALC/LKG, and OC-ALC:

2.4.2.1. Manage and maintain worldwide visibility of the munitions stockpile. Take action to place all stock numbers identified with automated accounting systems indicative data in CAS-A.

2.4.2.2. Have worldwide responsibility for inventory management of munitions assets.

2.4.2.3. Develop technical standards for munitions storage, maintenance, handling, surveillance, and disposition.

2.4.2.4. Plan for time-phased munitions sourcing and movements to support the execution of operational plan (OPLAN).

2.4.2.5. Plan for munitions resupply support. Provide copies of the final plan to affected storage, transportation and executing commands.

2.4.2.6. Inspect munitions items suspected as unserviceable or defective and order suspension, disposition or release actions depending on materiel condition.

2.4.2.7. Level munitions inventories among MAJCOMs after coordinating with HQ USAF/XO/IL.

2.4.2.8. Inspect suspected defective items and publishes Time Compliance Technical Orders (TCTO) to resolve potential problems.

2.4.2.9. Manage Foreign Military Sales (FMS) cases.

2.4.3. OO-ALC/WM (USAF Ammunition Control Point (ACP)).

2.4.3.1. Control STAMP and STRAPP, munitions and Afloat Preposition Fleet (APF) accounts.

2.4.3.2. Establish procedures and functions to maintain critical data, such as the standard USAF Munitions Complete Round Dictionary (CRD), base information file (BIF), explosive safety information, Indicative Data Record (IDR), Reportable Item Master File (RIMF), or any other indicative information.

2.4.3.3. Provide management information for the mandatory P-series documents that various planning, programming, and budgeting system (PPBS) activities use.

2.4.3.4. Lead ALC for developing depot level automated munitions systems:

2.4.3.4.1. Act as focal point and database manager.

2.4.3.4.2. Coordinate with WR-ALC/LKG, OC-ALC/MMH and SA-ALC/SW to ensure integrity of the automated munitions systems database.

2.4.3.4.3. Publish and send instructions and guidance for requirements forecasts to MAJCOMs and other functional offices of primary responsibility.

2.4.3.4.4. Collect, aggregate and control automated munitions systems and theater allocation buy-budget system (TABBS) database.

2.4.3.5. Optimize and allocate stockpiles with the Air Staff munitions OPR.

2.4.3.6. Prepare the P-series documents for the buy-budget process.

2.4.3.7. Produce, publish and disseminate TABBS output products and the Detailed Logistics Allocation Report (DLAR).

2.4.3.8. Oversee matters for AGM-65, AGM-84 and AGM-130 and maintains these missile items in the Air Force reporting system including DoD identification codes (DoDIC), tonnage and pricing.

2.4.3.9. Develop the initial DLAR for MAJCOMs to use in determining their positioning objectives based on results of the Allocation Conference.

2.4.3.10. Lead DLAR workshops in integrating command positioning objectives for air-to-ground and ground munitions.

2.4.3.11. Enter complete round munitions data in the CRD, when HQ USAF/XOOC notifies their intention to use the data to develop Air Force requirements and munitions, or certify flight tests.

2.4.3.12. Provide quarterly status reports to commands and HQ AFMC/DRAW on all munitions movements.

2.4.3.13. Provide historical data for funding "must pay" category of PACER AMMO.

2.4.3.14. Establish Locally Assigned Ammunition Reporting Code (LAARC) numbers.

2.4.3.15. Represent the Air Force in periodic meetings with the Single Manager for Conventional Munitions (SMCA).

2.4.3.16. Maintain a Munitions Rapid Response Team to respond to and investigate munitions incidents and accidents worldwide.

2.4.3.16.1. The Munitions Rapid Response Team supports Air Force units throughout the world anytime a munitions incident occurs.

2.4.3.16.1.1. This team is made up of experts (engineers, equipment specialists, program managers and safety personnel) from the conventional weapons and munitions programs and can respond within 24 to 48 hours to assist in determining the cause of a failure.

2.4.3.16.1.2. If a unit has an incident, it is important to preserve the evidence to the maximum extent allowable by operational requirements and safety. An example would be segregating an aircraft gun versus destroying it if it poses no immediate danger. This allows the team to evaluate all the evidence and recreate the problem.

2.4.3.16.2. The team can be reached at DSN 777-5156, 5053, 5055 4865 or the Hill AFB Command Post at 777-3007. Additional information about the team can be found in AFI 91-204 Chapter 3, *Safety Investigations and Reports*.

2.4.3.17. Activate the OO-ALC/WM Crisis Action Team to respond rapidly with munitions logistic support during crisis, emergency or wartime operations:

2.4.3.17.1. Develop and maintains written procedures to provide munitions support during crisis, emergency, and contingencies.

2.4.3.17.2. Re-supply combat units, as directed.

2.4.3.18. Establish the APF Management Team to develop and implement an on-board asset test and surveillance inspection plan using results from previous maintenance, inspections and rotation

schedule for use during crossloads. APF Management Team duties and responsibilities are included in paragraph **15.2.4.**.

2.4.4. WR-ALC/LKG.

2.4.4.1. Distribute tactical missiles based on HQ USAF guidance or combat demands from affected MAJCOMs.

2.4.4.2. Maintain configuration management for all-up-round munitions (e.g., tactical missiles, etc.), and provides a maintenance tracking system for the weapons life-cycle.

2.4.4.3. Oversee Air-Intercept-Missile (AIM) and Air-to-Ground Missile (AGM) matters, except for AGM-65, AGM-84 and AGM-130.

2.4.4.4. Maintain missile items (except AGM-65, AGM-84 and AGM-130) in the Air Force reporting system including DoDIC, tonnage and pricing.

2.4.4.5. Work with HQ SSG/ILW to develop software specifications, program interactions, and establish hardware requirements.

2.4.4.6. Jointly, with OO-ALC/WM, ensure AGM assets managed by WR-ALC/LKG are incorporated into the TABBS database.

2.4.4.7. Provide technical orders and data, supply support, test equipment, training, and training devices.

2.4.4.8. Host annual Tactical Air Missile Program (TAMP) conference, gather requirements, distribute assets according to allocations:

2.4.4.8.1. Publish the annual tactical missile redistribution plan based on the HQ USAF-approved TAMP.

2.4.4.8.2. Develop TAMP allocations for presentation at the GAP Conference to meet TAMP positioning objectives.

2.4.4.8.3. Host the missile PIWG and Tactical Munitions Records System (TMRS) steering group in conjunction with the TAMP.

2.4.4.9. Provide shipping information to HQ AFMC/DRAW for all WR-ALC managed weapons systems to be included in PACER AMMO quarterly status reports.

2.4.4.10. Provide historical data for funding “must pay” category of PACER AMMO.

2.4.4.11. Coordinate with OO-ALC/WM to ensure TAMP data is included in the quarterly status reports.

2.4.4.12. Provide missile CRD to OO-ALC/WM.

2.4.4.13. Validate accuracy and technical content of the CRD and component related data elements maintained by OO-ALC/WM.

2.4.4.14. Provide new missile configurations, including standard and NCAA weapon codes, in the CRD as soon as the identity of a proposed weapon becomes known.

2.4.4.15. Activate the TMCP as required during contingencies. Controls critical air-to-air missile stocks during peacetime and provides direct munitions logistics command and control (C2) resources to HQ USAF in wartime and during contingencies:

2.4.4.15.1. Develop and maintains written procedures to provide missile support during crisis, emergency and contingencies.

2.4.4.15.2. Re-supply combat units, as directed.

2.4.4.16. Provide MAJCOMs with standards for storing, handling, observing and inspecting AIM and AGM tactical missiles and components as developed by the PMO.

2.4.4.16.1. Inspect suspected defective missiles and components and publishes TCTOs to resolve potential problems.

2.4.4.16.2. Coordinate with item managers on criteria for explosive components, to include budgeting for these programs.

2.4.4.16.3. Establish and maintain a depot repair and disposition program for AIM and AGM assigned missiles and related components.

2.5. HQ Air Education and Training Command (AETC) (executing agent 363rd Training Squadron).

2.5.1. Establish specialty training standards, Career Development Courses (CDCs) and other training material based on requirements established by the 2W0XX U&TW.

2.5.2. Coordinate drafts and final training products with HQ USAF/ILMW and MAJCOM 2W0XX Functional Managers.

2.5.3. Fund temporary duty (TDY) costs for one representative from each command to attend the 2W0XX U&TW.

2.5.4. Provide formal training for CAS to provide initial skills training and advanced courses for operation, maintenance, data base management and user training based on requirements established by the 2W0XX U&TW.

2.5.4.1. Develop and catalog CAS related training courses.

2.5.4.2. Program, approve and procure training support for CAS.

2.5.4.3. Ensure the appropriate provisions of AFI 36-2201, *Policy and Guidance for Instructional Systems Development (ISD)* and AFI 36-2202, *Special Training* are applied to this program.

2.6. HQ Standard Systems Group (SSG).

2.6.1. The CAS PMO is responsible for the sustainment of CAS.

2.6.1.1. Act as the functional OPR for development of automated munitions accounting systems.

2.6.1.1.1. Develop direct on-line interfaces between automated munitions accounting systems to achieve seamless, joint communications within the munitions community.

2.6.1.1.2. Perform or assist in integrated systems and operational testing of software.

2.6.1.1.3. In collaboration with all MAJCOMs, test automated munitions systems and trains personnel.

2.6.1.2. Control the overall CAS program (CAS-A, CAS-B, CAS-C and CAS-D).

2.6.1.3. Procure all components and features for CAS.

2.6.1.4. Plan, program and develop budgets for CAS including standard AF hardware, design support, software maintenance, allied support, and any necessary fee for service requirements.

2.6.1.5. Plan, program and budget for automated follow on systems for all levels of CAS.

2.6.1.6. Produce a weekly Trouble Call Trend Analysis via email to all MAJCOMs and ALCs.

2.6.1.7. Produce a quarterly Trouble Call Analysis for the Quarterly Program Management Review (PMR).

2.6.2. Prepare and submit CAS Acquisition Program Baseline (APB) document, summarizing CAS-A, B, C, and D program requirements.

2.6.2.1. Identify the key parameters, concepts, numbers and dates which constitute agreement among the implementing, operating, supporting, and other participating commands for program requirements.

2.6.2.2. Coordinate the APB and any changes to it with ALL MAJCOM and HQ USAF/ILMW before getting approval from AFPEO/IM and the Service Acquisition Executive (SAE).

2.6.2.3. Obtain approval from the Designated Approval Authority (DAA) at the appropriate levels to operate CAS.

2.6.2.4. Prepare, coordinate, approve and distribute the CAS Program Management Plan and any needed attachments.

2.6.2.5. Establish procedures to develop, maintain, and control life-cycle documentation.

2.6.3. Provide contracting support for purchasing hardware and enhancements to the CAS. Includes:

2.6.3.1. Integrate and order hardware.

2.6.3.2. Establish and maintain delivery schedules.

2.6.3.3. Install hardware where there is no installation contractor.

2.6.3.4. Perform hardware acceptance tests.

2.6.4. Schedule and manage all CAS facility preparation, hardware installation and software implementation and conversion efforts.

2.6.4.1. Assist CAS locations when they need to relocate resize or deactivate.

2.6.4.2. Provide technical support and personnel to implement CAS at all levels, including field implementation, experts and team members, and computer programmers for all command software implementation and conversion.

2.6.4.3. Plan and program for the engineering and installation of required communications equipment, transmission media, and interface systems to connect long-haul communications networks up to commercially-provided or contractor-furnished telecommunication lines:

2.6.4.3.1. Perform pre-installation site surveys for communications cryptological devices, AF Emission Security Program (EMSEC), environmental, facilities, modifications and support requirements.

2.6.4.4. Advise operating commands of requirements.

2.6.4.5. Centrally control and effect CAS registrations for connectivity and coordinates affected agencies to develop a mutually satisfactory implementation schedule.

2.6.4.6. Identify funding for connectivity network costs to appropriate agencies, based on connectivity between the host and the satellite.

2.6.5. Support the FRB actions. Participate in and advise the AFMLSG and FRB.

2.6.6. Formalize CAS sizing data and allow for identified growth in coordination with the FRB and appropriate technical working groups.

2.6.7. Manage, conduct and report Qualification, Test and Evaluation (QT&E) as outlined in the Test and Evaluation Master Plan (TEMP).

2.6.7.1. Establish and chair a Test Planning Working Group (TPWG) and direct its activities.

2.6.7.2. Test systems integration and field operations.

2.6.8. Make sure that all CAS component systems are integrated, interactive and interoperable to help achieve a complete command and control entity for munitions.

2.6.8.1. Integrate CAS into one complete munitions system, to include contractor-developed software as specified by the program manager.

2.6.8.2. Initiate data system memorandums of agreement (MOA) or Software Interface Control Documents, and Interface Requirements Specifications (IRS) within CAS and other external data systems covering data exchange standards, communication standards, configuration control, and any other areas that will ensure synchronization between programs.

2.6.8.3. Support the development of interfaces (air gap and electronics) between CAS and other systems, which must exchange data efficiently.

2.6.8.4. Facilitate and maintain external interfaces as dictated by functionally approved requirements.

2.6.9. Prepare a security plan and a detailed schedule of all actions required to obtain accreditation.

2.6.9.1. Consult with Air Force Intelligence Command to determine the communications and computer systems security requirements, communications security (COMSEC) equipment requirements, security safeguards and initial entries in the applicable tables of allowance.

2.6.10. Establish automated configuration management procedures, which implements systematic identification, change control and status accounting of the system.

2.6.11. Chair the CAS Configuration Control Board.

2.6.12. Manage central funds by establishing procedures to determine and track program costs and resolve funding issues.

2.6.12.1. Report status of planned activities in terms of cost, schedule and technical performance.

2.6.12.2. Provide cost analyses, budget estimates, targets and comparison reports for equipment or software changes, established schedules, mission deviations, base closures relocation or downsizing of base operations, or directed baseline changes.

2.6.13. Submits an annual schedule (1 Jan through 31 Dec) of all future conferences, Product Improvement Working Groups, FRBs, etc, to AAC/WM not later than 1 Dec of each year.

2.7. Base/Unit.

2.7.1. Bases and stations must operate munitions inventory management accounts according to established procedures.

2.7.2. All individuals and organizations which physically control, possess, store, and maintain munitions must control, protect, and account for these resources until expended, consumed, or removed from Air Force stock.

2.7.3. The Logistics Group Commander (LG/CC) or equivalent will:

2.7.3.1. Publish a wing operating instruction to establish reconciliation procedures for munitions issued to meet flight line requirements. As a minimum, procedures will:

2.7.3.1.1. Designate responsibilities of the Munitions Flight, Weapons Flight, account custodians and maintenance operations.

2.7.3.1.2. Account for and control munitions loaded in or on aircraft, including impulse cartridges.

2.7.3.1.3. Agree on document flow and scheduling.

2.7.3.1.4. Maintain loading support documents.

2.7.3.1.5. Reconcile munitions at the end of the flying day.

2.7.3.1.6. Track and verify munitions expenditures.

2.7.3.1.7. Specify the actual time of reconciliation and points of contact.

2.7.3.1.8. Reconcile deliveries to and from the flight line.

2.7.3.1.9. Account for safing devices.

2.7.3.1.10. Control expended brass and munitions residue. These assets will be treated as explosive until certified.

2.7.3.1.11. Manage expended munitions.

2.7.3.1.12. Provide adequate control and security.

2.7.3.1.13. Performance of daily and weekly inventories.

2.7.3.1.14. Operate under peacetime, wartime and contingency conditions.

2.7.3.1.15. Management of impulse cartridges.

2.7.3.2. Establish procedures to manage the cartridge actuated device/propellant actuated device (CAD/PAD) time change requirements forecast IAW T.O. 00-20-9, *Forecasting Replacement Requirements for Selected Calendar and Hourly Time Change Items.*

2.7.3.2.1. Ensure timely and accurate processing of replacement requests.

2.7.3.2.2. Define functional responsibilities between maintenance activities and the MASO.

2.7.4. The Organization or Unit Commander (using commander) will:

2.7.4.1. Ensure munitions are not released to agencies or individuals outside the USAF.

2.7.4.2. Manage property in use or in storage at activities they command.

2.7.4.3. Be responsible for munitions received by their organization and sign the AF Form 68, **Munitions Authorization Record**.

2.7.4.4. Obtain explosive safety license for types and quantities of munitions stored outside the munitions storage area, as necessary.

2.7.4.5. Provide accurate and timely forecasting, adequate storage, proper security and control, and custodial responsibility for all munitions items (including OO-ALC/WM managed Commercial off the Shelf (COTS) munitions) that your organization receives.

2.7.4.6. Submit munitions forecast requirements to the MASO or MAJCOM Munitions User Functional Manager (MUFM) as directed by MAJCOM munitions staff.

2.7.4.7. Ensure allocations are not exceeded:

2.7.4.7.1. Ensure allocations given for mobility and Officer Arming Programs are issued and prepared in a mobility configuration if required. Ensure training allocations are fully utilized or are promptly returned to the MASO for return to the MAJCOM MUFM for redistribution.

2.7.4.8. Obtain or provide transportation to pick up and deliver required munitions to and from the munitions storage area (MSA).

2.7.4.9. Ensure departing personnel transfer munitions accountability to a new custodian or turn in all munitions and explosives to the MASO at least 45 days before release from duty.

2.7.4.10. Immediately screen and remove on-hand/installed munitions items, when notified of suspended or restricted munitions and take appropriate turn-in action.

2.7.4.11. Ensure timely completion of custody account inventories and sign the inventory listings.

2.7.4.12. Ensure timely reports are submitted for any theft, suspected theft, loss, or destruction of a munitions item (through other than fair wear and tear, authorized expenditure, installation or disposal), to the MASO and applicable authority. Report losses whether assets are in transit, in storage, or issued to an organization or individual for custody or consumption.

2.7.4.13. Ensure the turn in of munitions residue, packaging, and containers to the Munitions Flight for certification or disposition.

2.7.4.14. Initiate a formal courtesy storage agreement with the munitions storage activity when such storage is required

2.8. Squadron Commander (or equivalent). The squadron commander performs command functions out-lined by public law, AFI 21-101, *Maintenance Management of Aircraft* and instructions common to all Air Force squadron commanders. He or she is responsible to the respective group commanders for overall squadron management. In addition, the squadron commander will:

2.8.1. Ensure munitions facilities sited for explosives storage, inspection, and maintenance are used for their intended purpose.

2.8.1.1. If munitions structures are going to be used for other than their intended purpose, forward deviation requests to MAJCOM for consideration. Refer to AFI 32-9002, *Use of Real Property Facilities* for additional guidance.

2.8.2. Appoint the Munitions Flight Chief (2WXXX), based on the candidate's qualifications, experience, management skills and technical knowledge.

2.8.2.1. Advise the Munitions Flight Chief of their role in meeting squadron objectives and delegates the needed authority.

2.8.3. Ensure supervisors enforce the requirements in Air Force Manual (AFMAN) 91-201, *Explosives Safety Standards.*

2.8.4. Ensure the MASO is appointed IAW AFI 23-111, *Management of Government Property in Possession of the Air Force.*

2.8.5. Review, sign and return munitions inventory result letters to MASO within 15 days of receipt.

2.8.6. Ensure the Munitions Flight has local area network (LAN) and Internet capability at each operational and inhabited building within the MSA. Additionally, ensures dedicated automated data processing equipment (ADPE), to include:

2.8.6.1. Front end business process server to support the LAN backbone, and software supporting each of the following and meeting systems requirements with consideration given to operating speed and the size of the stockpile.

2.8.6.2. Tactical Munitions Reporting System (TMRS).

2.8.6.3. Combat Ammunition System-Deployable (CAS-D).

2.8.6.4. Munitions Control 2000 (MC2K).

2.8.6.5. Automatic Identification Technology.

2.8.7. Ensure an intrusion detection system (IDS) is installed in permanent facilities when required to store munitions IAW DoD 5100.76-M, *Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives.*

2.8.7.1. When IDS is not available, protect munitions as outlined in AFI 31-101, *The Air Force Physical Security Program.*

2.8.8. Ensure munitions personnel practice sound maintenance, supply discipline and financial management.

2.8.9. Review Emergency War Orders (EWO) and mobility, contingency, and exercise plans that affect the unit.

2.8.10. Approve the appointment of the CAS-B System trusted officials: System Administrator (SA), Computer System Security Officer (CSSO), and System Operators (SO).

2.8.11. Review applicable host tenant support agreements, inter-service support agreements and MOA.

2.8.12. Route all 2W031 technical training Graduate Assessment Surveys (GAS), Field Evaluation Questionnaires (FEQ) and AETC Form 156, **Student Training Report** to the munitions flight chief.

2.8.13. Ensure all upgrade training requirements listed in the **AFSC 2W0X1 Munitions Systems Career Field Education and Training Plan** (CFETP) and the flight master training list are met prior to upgrade approval.

2.9. Munitions Flight Commander/OIC/Chief . Responsible to the squadron commander for munitions maintenance management. Responsible for the overall management of the wing munitions support and provides broad policy guidance to the Munitions Flight. Scope of the responsibility concentrates on

the safe, secure, and efficient use of personnel and materiel resources, while maintaining the highest degree of munitions capability and accountability in accordance with all governing standards. The ultimate goal is upholding a combat readiness capability commensurate with mission tasking. In addition the Flight Commander/OIC/Chief will:

2.9.1. Resources and Readiness. All planning actions and resource management must be centered upon establishing and maintaining optimum readiness in accordance with overall wing mission. A spirit of team support and cooperation is essential in Joint Service and allied operations, provided it is in accordance with established memorandums of understanding and inter-service support agreements. Refer to Air Force Joint Instruction (AFJI) 21-211, *Emergency Munitions Support for Joint Operations* for emergency munitions support to other agencies. Coordination with the MAJCOM munitions staff is strongly encouraged for such actions.

2.9.1.1. Monitor shift manning, distribution of supervision, equipment requirements and make necessary adjustments.

2.9.1.1.1. Inform the squadron commander of imbalances between authorizations and number of personnel assigned or between authorized and assigned skill levels or grades.

2.9.1.1.2. Ensure shift scheduling considers additional duties, leaves, training and work details to provide maximum capability and minimize work force degradation.

2.9.1.1.3. Review and evaluate management and production reports. Start management actions to meet new workloads or corrects deficiencies identified in these reports.

2.9.1.2. Provide guidance to subordinate supervisors for work force management.

2.9.1.3. Select the Production, Materiel and Systems Superintendents and element chiefs.

2.9.1.4. Appoint the Senior Munitions Inspector and qualified munitions inspectors in writing. After appointment, the Munitions Flight Chief must ensure Special Experience Identifier (SEI) 836 is awarded to all qualified munitions inspectors.

2.9.1.5. Ensure all individuals receiving Explosive Safety formal training and meet all qualifications are awarded SEI 375.

2.9.1.6. Manage the munitions special certification roster (SCR) IAW AFI 21-101. Ensures a current copy of the SCR is taken on all deployments.

2.9.1.7. Is responsible for flight manning.

2.9.1.7.1. Ensure the unit manning document (UMD) mirrors the approved organizational structure.

2.9.1.7.2. Ensure the personnel data system accurately reflects personnel assignments.

2.9.1.7.2.1. Maintains an updated current copy of the unit manning personnel roster (UMPR).

2.9.1.7.2.2. Verifies accuracy of duty AFSC and position number on personnel actions.

2.9.1.7.2.3. Maintains a suspense file of personnel actions and verifies approved actions have been correctly entered into the personnel data subsystem.

2.9.1.7.3. Coordinate permanent change of assignment (PCA) actions. Ensures required documentation is completed and submitted. Ensures the squadron commander and squadron administration is briefed on all pending PCA actions.

2.9.1.7.4. Allocate projected gains against pending or actual vacant slots to the maximum extent possible.

2.9.1.7.5. Coordinate on changes/additions to the squadron in-/out-processing checklist when a group in-/out-processing checklist has not been developed.

2.9.1.7.6. Distribute projected gain/loss lists and maintenance manpower requests (MMR) to all sections and establishes a suspense for updates. Ensure approved personnel actions have been received for all updates then submit consolidated updates to squadron commander/maintenance supervision.

2.9.1.7.7. Provide squadron commander/maintenance supervision with information copies of all correspondence to or from mission support squadron which could impact the munitions manning posture, i.e., gain and loss notices, assignment cancellations, separations/retirements, duty assignment changes, overlaps eliminated, etc.

2.9.1.7.8. Review all inbound 2W031 technical training GAS, FEQ and AETC Form 156, **Student Training Report**. Provide to supervisor for completion and review responses from supervisors and graduates prior to returning the GAS and FEQ to the squadron training section.

2.9.1.7.9. Ensure all upgrade-training requirements identified in the 2W0X1 Career Field Education and Training Plan (CFETP) are met prior to upgrade approval.

2.9.1.7.10. Ensure all 2W0X1 Occupational Surveys are completed and returned to the squadron training section.

2.9.1.8. Manage the unit's munitions portion of the WCDO (or COMMAND equivalent).

2.9.1.8.1. Units must plan to store a reasonable mixture of training, WCDO and other required munitions.

2.9.1.8.2. Units must up channel any factors that limit their capability to receive, inspect and store their WCDO requirements to their MAJCOM.

2.9.1.9. Develop comprehensive Combat Munitions Plans (CMP) to support all OPLAN tasking. Ensure the annual review required by AFI 10-404, *Base Support Planning* is accomplished. See **Chapter 9** for more details.

2.9.1.10. Ensure capability exists to receive, store, inspect, assemble, test, repair, troubleshoot and deliver all munitions on the unit committed munitions list (UCML) or equivalent.

2.9.1.10.1. Identify which element will perform Combat Munitions Reliability Inspections (CMRI) IAW **Chapter 7**

2.9.1.11. Ensure capability exists to receive, store, inspect, assemble, test, repair, troubleshoot and deliver all support munitions tasked for beddown forces at main operating bases.

2.9.1.11.1. This information can be obtained from deploying unit's UCML, Integrated Tasking Order (ITO), Standard Configuration Loads (SCL) and unit fuzing letters.

2.9.1.11.2. This capability should be demonstrated to a limited amount during local and higher headquarters exercises/inspections.

2.9.1.12. Establish an Emergency Destruction of Materiel (EDM) plan within the CMP when directed by MAJCOM.

2.9.1.12.1. OCONUS units and munitions units with mobility tasking normally develop plans for the denial of U.S. titled conventional munitions and components to unauthorized personnel.

2.9.1.12.2. This plan provides guidance for EDM of classified conventional munitions, classified test equipment, and classified T.O.s and files.

2.9.1.12.3. Develop EDM training, which is mandatory for all personnel.

2.9.1.13. Ensure capability exists to receive, inspect, maintain and store intermodal (ISO/MIL-VAN) containers, if required.

2.9.1.14. Ensure personnel and equipment are identified and prepared to meet deployment tasking IAW: AFI 10-403, D*eployment Planning;* AFI 10-215, *Personnel Support for Contingency Operations (PERSCO);* AFMAN 10-401 Vol 1, O*peration Plan and Concept Plan Development and Implementation* and AFMAN 10-401 Vol 2, *Planning Formats and Guidance.*

2.9.1.14.1. Designate the sections and elements responsible for maintaining deployment packages and equipment.

2.9.1.15. Ensure support equipment enclosed in war reserve materiel or mobility kits is inspected IAW to 00-20-7, *Inspection System, Documentation and Status Reporting for Support and Training Equipment.*

2.9.1.16. Inform squadron supervision/logistics group commander, and MAJCOM when the capability to accomplish the munitions mission becomes adversely affected.

2.9.1.16.1. Status and availability of critically short munitions items that might impair the mission.

2.9.1.16.2. Personnel and equipment shortfalls. Units may also be required to report in Status of Resource and Training Systems (SORTS) if required by the unit.

2.9.1.16.3. Requests to use augmentees (mobility positions only) must be approved by MAJCOM munitions staff.

2.9.1.16.4. Use of 2W0X1 personnel to augment wartime tasking of other units/agencies is prohibited. Such a practice limits the available manning essential to meet contingency/combat tasking.

2.9.1.17. Validate flight equipment and authorizations against appropriate Allowances Standards for items such as: Aerospace Ground Equipment (AGE); Alternate Mission Equipment (AME); Test, Measurement and Diagnostic Equipment (TMDE); communications; etc., to ensure required equipment is adequate and excess equipment is disposed of IAW applicable standards.

2.9.1.18. Ensure the System Superintendent establishes a program for control of assigned land mobile radios (LMR).

2.9.1.19. Establish requirements for vehicles and support equipment and ensure procedures for operation and maintenance are enforced.

2.9.1.20. Develop a program to track unserviceable and repairable items for repair action as soon as parts and/or maintenance are available.

2.9.1.21. Establish a Munitions Flight cannibalization program for conventional munitions items and MMHE. Approve all cannibalization.

2.9.1.22. Ensure the corrosion control program for assigned MMHE and munitions assets is implemented and properly managed.

2.9.1.23. Ensure operator inspections and user servicing requirements are accomplished on assigned non-powered support and test equipment IAW T.O. 00-20-7 and forwarded to appropriate activity for scheduled inspection, calibration or repair.

2.9.1.24. Register munitions support equipment according to T.O. 35-1-24, *Air Force Economic Repair/Replacement Criteria for Selected San Antonio Air Logistics Center (ALC) Managed Support Equipment (SE).* Gain and loss reports are addressed to the ALC through core automated management system (CAMS).

2.9.1.25. Ensure equipment status and historical documents are kept as required and maintained according to T.O. 00-20 series technical orders.

2.9.1.26. Implement CAS maintenance and operations as per: Air Force Computer Systems Manual (AFCSM) 21-824 Vol 1 *Combat Ammunition System-Base (CAS-B): D078Y/IS Software User Manual;* AFCSM 21-824 Vol 2 *Combat Ammunitions System-Base: User manual;* AFCSM 33-824 *Combat Ammunition System-Base (CAS-B): D078Y/IS Software Center Operator Manual* and *Combat Ammunition System-Deployable (CAS-D) Online Reference.*

2.9.1.26.1. Establish operating instructions for CAS-B and CAS-D users.

2.9.1.26.2. Conduct an internal training exercise at least semiannually to ensure munitions personnel can effectively operate and use the CAS-D system.

2.9.1.26.2.1. CAS-D is critical for contingency tasking.

2.9.1.26.2.2. During all exercises/readiness inspections, CAS-D will be used as the primary accountability system.

2.9.1.27. Approve local courtesy storage agreement requests for the use of munitions facilities by other organizations.

2.9.1.28. Ensure accurate and timely submission of the RCS: HAF-ILM (Q)-9901, **Munitions Capability Report** to MAJCOM. The Munitions Capability report will be submitted quarterly. The report will be formatted IAW **Chapter 10**.

2.9.1.29. Ensure accurate and timely submission of RCS: HAF-ILM(A)-9902, **Master Storage Plan Report** to MAJCOM. The Master Storage Plan report will be sent annually. The report will be formatted IAW **Chapter 11**.

2.9.1.30. Ensure that Product Quality Deficiency Reports (PQDR) are submitted to the appropriate ALC when a product deficiency is detected.

2.9.1.31. Establish and publish a munitions movement control program within the flight. Refer to paragraph **4.1.13.**

2.9.1.32. Ensure repairs or modifications are not made to munitions or munitions equipment unless authorized by item T.O., AFMAN 91-201, or approved by the MAJCOM munitions staff and the ALC equipment specialist.

2.9.1.33. Ensure compliance with supply procedures.

2.9.1.33.1. Monitor supply support and identify problems to the squadron commander.

2.9.1.33.2. Monitor requirements for composite tool kits (CTK), special tools and support equipment IAW AFI 21-101. Exception, lost tools/objects during AFCOMAC Iron Flag Exercises will not be reported past 9 MUNS/LGW.

2.9.1.34. Ensure procedures for identifying, recording and clearing repeat and cannot duplicate (CND) discrepancies are understood and followed.

2.9.1.35. Ensure munitions and support equipment is available to support the wing training effort.

2.9.2. Training.

2.9.2.1. Implement training and qualification programs so technicians perform assigned tasks to established standards.

2.9.2.2. Standardize training documentation throughout the flight to ease the transfer of personnel to other shops.

2.9.2.3. Direct the Munitions Training Element to develop and manage the Combat Munitions Training Program (CMTP) to establish proficiency on munitions requirements for all contingencies (in place or deployed) and OPLAN taskings.

2.9.2.4. Ensure trained technicians are available to maintain a working environment for the production and maintenance of safe, serviceable, and reliable munitions.

2.9.2.5. Ensure the Master Training Plan covers peacetime and contingency tasks.

2.9.2.5.1. Develop a munitions buildup task-training list used during training for all munitions operations. Ensure all munitions personnel are trained and qualified to support unit wartime and contingency missions. UCML, the pre-integrated tasking order, operational support, aircrew training syllabus, and employment plans/base support plans will be used to determine scope of the training program.

2.9.2.5.2. Establish the number of personnel to train on each tasked munitions to meet the unit's most demanding wartime or contingency requirement. In determining this, consider the highest probable usage of tasked munitions, the complexity of the task, and the need for flexibility in the use of personnel.

2.9.2.5.2.1. Establish a lesson plan for each task. Lesson plans will meet requirements of paragraph **5.3.3.**

2.9.2.5.2.2. Designate personnel to be trained and academic CMTP buildup instructors in writing and monitors their activities.

2.9.2.5.2.3. Appoints lead CMTP buildup instructors.

2.9.2.5.2.4. As a minimum, CMPT buildup instructors must be an E-4, second term airman and have attended AFCOMAC.

2.9.2.5.2.5. Lead CMTP instructors may be assigned to the Munitions Training Element or augmented by other flight elements.

2.9.2.5.2.6. Establish buildup teams based on the requirements in the CMTP, i.e., bomb, chaff and flare, missile, etc. teams.

2.9.2.5.3. Approve all lesson plans after coordination with Wing safety (overall safety contents) and Quality Assurance (contents for technical accuracy).

2.9.2.5.4. Establish a comprehensive CAS-B (except AFRC) and CAS-D training program. Ensure continuity books or procedures are established to promote the standardization of CAS-B processes. Utilize CAS-B training database as much as possible (i.e. assign training passwords until CAS-B proficient). CAS-B access will not be given (other than to the training database) until training is complete and documented (when program ID's are given in the CFETP).

2.9.2.5.4.1. Ensure all personnel are trained on automated accounting system operations for their respective duty sections to the maximum extent possible. Personnel should (at a minimum) understand sign-on/off procedures, security concerns and the programs they have access to.

2.9.2.6. Establish an agreement between host and satellite activities for automated system support IAW AFI 25-201, *Support Agreement Procedures*. As a minimum, trains assigned personnel on:

2.9.2.6.1. Automated inventory management procedures.

2.9.2.6.2. Terminal security.

2.9.2.6.3. Input function operations.

2.9.2.6.4. Current procedures for assigned duties.

2.9.2.7. Monitors overall buildup crew status and submits personnel shortfalls using Status of Resource and Training Systems (SORTS) through the LG/CC. ***NOTE***: All 2W0X1 working outside their respective workcenter or DAFSC should be qualified/certified to fill wartime skill shortfalls before reporting in SORTS.

2.9.2.8. Reviews DOC Statements, Unit Committed Munitions List (UCML) and O-Plans, coordinates changes and appendices with the weapons and tactics function and the weapons standardization.

2.9.2.9. Serves as an advisor to the wing exercise evaluation team. Provides expertise in development of local exercises involving munitions functions.

2.9.2.10. Ensures standardization of buildup crew CTKs by munitions weapon system type to the maximum extent possible.

2.9.2.11. Ensures sufficient serviceable training munitions are available to support buildup training programs.

2.9.2.12. Designates, and provides to the LG/CC, the number of munitions buildup crews, on conventional support/limited use munitions based on unit tasking.

2.9.2.13. Monitors the unit's munitions dud and misfire rates to determine weapons system effectiveness.

2.9.2.14. When required by UCML the munitions flight is the OPR for wing O-Plans covering emergency nuclear weapon procedures and wing OIs governing weapon custody and transfers as directed in AFI 21-204. Nuclear weapon training will also be as directed in AFI 21-204.

2.9.2.15. Monitors the status of critical munitions support equipment and testers for serviceability, accountability and status of Time Compliance Technical Order (TCTO) modifications.

2.9.3. General.

2.9.3.1. Ensure ammunition and explosive items are not released to agencies or individuals outside the Air Force unless one of the conditions in paragraph **12.6.** is met.

2.9.3.2. Enforce the strict use of T.O.s and pertinent publications during all explosives operations.

2.9.3.2.1. Ensure T.O. files are current and maintained IAW T.O. 00-5-2, *Technical Order Distribution Sy*stem. Technical data can only be released outside USAF channels IAW T.O. 00-5-19, *Security Assistance Technical Order Program.*

2.9.3.2.2. Encourage technicians to question T.O. procedures if instructions appear unsafe or inefficient, using technical order improvement reports.

2.9.3.2.2.1. The Munitions Flight Chief must evaluate all AFTO Forms 22**, Technical Order System Improvement Report and Reply**, for accuracy and applicability.

2.9.3.2.2.2. The Munitions Flight Chief must sign the supervisory signature block of the AFTO Forms 22 on munitions and munitions handling equipment technical orders and review all related AFTO Forms 135, **Source, Maintenance, and Recoverability Code Change Request**, and PQDRs.

2.9.3.2.3. Use of interim T.O.s must be authorized in writing by the MAJCOM, IAW T.O. 00-5-1, *AF Technical Order System* and only for a limited period of time.

2.9.3.2.4. Ensure the flight monitors, reports, and updates all TCTOs that are currently required for conventional munitions and equipment according to the TCTO instructions and T.O. 00-20-2, *Maintenance Data Documentation.*

2.9.3.3. Approve all local checklists, after coordination with Quality Assurance and Wing Weapons Safety. Nuclear checklists will be approved prior to use IAW AFI 21-204.

2.9.3.4. Implement explosives and industrial safety programs, which includes indoctrination of newly assigned personnel and administration of recurring training for all flight members.

2.9.3.4.1. Publish local procedures governing munitions operations during severe weather or electrical storms according to AFMAN 91-201.

2.9.3.4.2. Publish emergency action procedures to cover, as a minimum, severe weather conditions, explosive incidents and accidents, increased security conditions, and contingency support.

2.9.3.4.3. Ensure all shops establish a Hazardous Communication program and maintain AF Form 55, **Employee Safety and Health Record**, IAW AFI 91-301, *AF Occupational and Environmental Safety, Fire Prevention and Health (AFOSH) Program*, attachment.

2.9.3.4.3.1. Ensure all personnel obtain the required safety training.

2.9.3.4.3.2. Ensure safety information is available and personnel in hazardous areas are briefed about the dangers.

2.9.3.4.3.3. Identify requirements to the bioenvironmental engineering to ensure facilities meet AF industrial environmental standards IAW AFI 91-302.

2.9.3.4.3.4. Maintain liaison with bioenvironmental engineering having responsibility for monitoring potentially hazardous environmental conditions within maintenance areas.

2.9.3.4.4. Ensure all munitions are transported in a safe and secure manner.

2.9.3.4.4.1. Develop written procedures requiring all forklift and bomblift operations handling munitions items to utilize a spotter.

2.9.3.4.4.2. Forklifts transporting munitions will have the load secured to the cage utilizing tie down straps or chains and binders. This practice is highly discouraged and cargo trucks should be used whenever possible.

2.9.3.4.5. In the event of an explosive or munitions mishap or incident, notify MAJCOM Functional Manager or munitions staff.

2.9.3.4.5.1. If the mishap is caused by the malfunctioning of a munitions item (live or inert), also notify OO-ALC/WM's Munitions Rapid Response Team at DSN 777-5156, 5053, 5055 or 4865, or the Hill AFB Command Post at 777-3007. For additional information refer to paragraph 2.4.2.16.

2.9.3.4.6. Ensure applicable explosives site plan data and maps are maintained in the flight. Reviews annually to ensure any changes are reflected in the documentation during the annual explosive safety inspection of the MSA. Ensures all planned changes to facilities' usage or footprint are coordinated with wing safety, resource protection, and civil engineering prior to implementation.

2.9.3.5. Establish an operating instruction for management of Special Packaging Instruction (SPI) containers and packing material, empty reusable containers and munitions residue inspection, certification and final disposition.

2.9.3.6. Ensure crew briefings are given before the start of any munitions operation. As a minimum, the briefing includes an outline of the operation, safety (hazards and technical requirements of munitions involved), emergency procedures (explanation of each team member's role and whom to notify and how all personnel will be accounted for) and personnel limits.

2.9.3.7. Establish and maintain a hazardous waste program (for other than munitions) within the Flight. Establish and coordinates procedures with base environmental flight to control and properly recover material.

2.9.3.8. Develop written entry control procedures for the MSA IAW AFI 31-101, *The Air Force Physical Security Program,* and DoD 5100.76-M.

2.9.3.8.1. Ensure procedures contain performance of all entry control procedures, inspections, increased Threat Condition (THREATCON) duties, Random Antiterrorism Measures and random vehicle and personnel searches during MSA entry and exit established by the Wing Resource Protection Council and the servicing Security Forces Organization.

2.9.3.9. Is appointed by the installation commander or their designee to manage and control the key, lock and cylinder program in the Munitions Flight.

2.9.3.9.1. Appoint the key and lock custodian(s).

2.9.3.9.2. Sign the DD Form 577, **Signature Card**, mechanized listing or letter authorizing individuals to sign for keys to munitions maintenance and storage facilities. The key issuing authority maintains the documentation.

2.9.3.10. Publish procedures in coordination with the Wing Weapons Manager, to collect and record flight hours of munitions loaded in/on aircraft for input into TMRS/Reliability Asset Monitoring System (RAMS).

2.9.3.11. Ensure procedures are developed for manual tracking of equipment, inventories and work-orders during extended downtime of CAS-B. Procedures should include listings required, manual documentation required, and processing sequence after system comes on line.

2.9.3.12. Develop procedures for the use of Assembly Lot Numbers during contingencies, local and higher headquarters exercises and to track and account for built-up (ready) munitions. Local procedures between the Munitions Flight Chief and Wing Weapons Manager will be developed for flight line reporting using Field Lot Numbers.

2.9.3.13. Develop a standardized munitions storage location system that uses a minimum of 11 digits and a maximum of 13-digits to accommodate the use of suffixes as the location code. Request for deviations from the use of a 13-digit system must be submitted to MAJCOM for consideration. Refer to T.O. 11A-1-61-4, *Storage and Outloading Instructions Conventional Ammunition* as a guide.

2.9.3.14. Ensure submittal of Dull Sword reports as outlined in AFI 91-204, *Safety Investigations and Reports*.

2.9.3.15. Establish procedures for managing and controlling munitions stored in ready facilities and Hardened Aircraft Shelters (HAS).

2.9.3.16. Assist the Logistics Group commander (or equivalent) with developing local accountability procedures for aircrew training munitions IAW AFI 36-2217, *Munitions Requirements for Aircrew Training* and this instruction.

2.9.3.17. Chair the weekly scheduling meeting, approves and signs the munitions maintenance schedules.

2.9.3.17.1. Units not using the CAS-B work order process will develop local written procedures collecting data elements captured in the CAS-B.

2.9.3.18. Send requests to MAJCOM munitions staff to add complete round codes to the Air Force standard munitions configuration table in the CRD.

2.9.3.19. Ensures the appropriate ALC engineering data service center is used to obtain information/specifications when technical orders do not provide enough detail.

2.9.3.20. Quality Assurance (QA) Program.

2.9.3.20.1. In coordination with QA, ensures a viable quality assurance program is implemented as outlined in AFI 21-101, **Chapter 5** and this instruction.

2.9.3.20.2. Recommend munitions personnel to fill QA positions.

2.9.3.20.3. Review analysis, QA, and other inspection reports to determine if adequate management actions have been taken to fix discrepancies and identify root causes.

2.9.3.21. Comply with T.O. 33K-1-100, any applicable calibration measurement summary (CMS), T.O. 00-20-14 and other applicable technical directives concerning the use, care, handling, transportation and calibration of test, measurement and diagnostic equipment owned by the flight.

2.9.3.22. Implement and maintain Inprogress Inspection (IPI) Program IAW AFI 21-101, T.O. 00-20-1 and MAJCOM guidance as required.

2.9.3.22.1. The wing master IPI lists will be reviewed annually.

2.9.3.22.2. Review/update flight IPI requirements listing as required. Route through the squadron maintenance officer/maintenance supervision for consolidation and group commander approval. Forward to QA for review, standardization and publication.

2.9.3.23. Ensure flight or section administrative procedures are established to process reports and file documents.

2.9.3.24. Manage the flight portion of the foreign object damage (FOD) and dropped object prevention (DOP) programs.

2.9.3.25. AMMO Flight Recognition Program. Promote the program to recognize exceptional performers periodically in the airman and NCO ranks, coinciding with local recognition programs. Prestige of the award should be enhanced with meaningful incentives.

2.10. Munitions Accountable Systems Officer (MASO).

2.10.1. Oversee the effective and efficient management of the munitions stockpile.

2.10.2. Analyze management data to determine the effectiveness of munitions support, personnel utilization, and requirements.

2.10.3. Recommend policy and procedural changes to higher headquarters through command channels.

2.10.4. Request and maintain copies of letters appointing munitions inspectors.

2.10.5. Ensure munitions operations personnel are knowledgeable on all facets of munitions accountability and have access to all required publications.

2.10.5.1. Develop a training program to cover all aspects of the operation, i.e., Custody accounts, CAS-D, and Global Transportation Network (GTN) usage.

2.10.6. Review all phases of the FV account operations at least semiannually.

2.10.7. Provide the Organization or Unit commander a briefing on custody account responsibility.

2.10.8. Develop and publish a wing operating instruction to aid commanders, custodians and munitions users in munitions accountability procedures.

2.10.9. Provide briefings to primary and alternate custodians, and certifying officials on their responsibilities. This briefing must be conducted within 30 days of appointment or prior to receiving custody of munitions, whichever is sooner.

2.10.10. Provide detailed training to primary and alternate custodians on custody account management.

2.10.11. Submit munitions forecast as directed by the MAJCOM.

2.10.12. Establish and maintain stock levels corresponding to the command allocation document or an approved AF Form 1996, **Adjusted Stock Level**.

2.10.13. Notify customers immediately of suspended or restricted ammunition.

2.10.14. Coordinate with the CAS-B SA to submit and follow-up on required difficulty reports (DIREP) when software or procedural errors are suspected or detected.

2.10.15. Know the unit's contingency and operational plan (OPLAN) tasking, including base support planning.

2.10.16. Identify to the base WRM and transportation officer all munitions listed in the OPLAN for shipment and receipt.

2.10.17. Help the chief of logistics plans to develop WRM receipt and out-load planning actions.

2.10.18. Is the base WRM (including tactical missiles and mobility munitions) munitions manager.

2.10.19. Ensure no one expends WRM munitions in peacetime without approval IAW AFI 25-101, *War Reserve Materiel (WRM) Program Guidance and Procedures.*

2.10.20. Develop and implement a self-inspection program, using the command compliance and standardization requirements listing (C&SRL), for munitions accounts as a basic guideline.

2.10.21. Review monthly the appropriate Base Supply records to ensure DoD stocklisted non-nuclear munitions, missiles and related explosive/inert components that should be managed by the MASO (see paragraph **12.5.2.1.**) are not on Base Supply records.

2.10.22. Appoint TCTO monitors to ensure MASO managed munitions components for TCTO kits are requisitioned and follow-ups are performed until received.

2.10.23. Approve and certify in writing all "paperwork only" transactions.

2.11. Section Superintendent . Responsible to the Munitions Flight Chief for the overall management of the elements in their respective sections: Production, Materiel and Systems. In addition to responsibilities delegated by the Munitions Flight Chief, the superintendent will:

2.11.1. Monitor shift manning, distribution of supervision and makes necessary adjustments. Imbalances between authorizations and the number of personnel assigned or between authorized and assigned skill levels or grades are identified to the Munitions Flight Chief.

2.11.2. Ensure scheduled and unscheduled maintenance actions are identified and completed.

2.11.3. Evaluate skills, aptitudes and proficiency of assigned people to develop workcenter training requirements.

2.11.4. Ensure section personnel and equipment are identified and prepared to meet deployment tasking IAW AFI 10-403, AFI 10-215, AFMAN 10-401 Vol 1 and Vol 2.

2.11.5. Ensure effective training programs are instituted.

2.11.6. Manage additional duties, leaves, ancillary training and details to minimize work force degradation.

2.11.7. Enforce the squadron security program within the flight.

2.11.8. Maintain good housekeeping practices, safety, security and environmental control standards.

2.11.9. Monitor and ensure environmental health physicals and respirator training, initial and recurring requirements, are accomplished when required for assigned personnel.

2.11.10. Review new, revised, or changed publications and informs personnel of any significant changes. Decides if new or changed publications affect the qualifications of personnel. Ensures publications are current and required publications are available to meet section needs.

2.11.11. Ensure procedures are followed to identify, record and clear repeat and CND discrepancies.

2.11.12. Ensure sections maintain a record of inspection, lubrication, and maintenance of industrial equipment.

2.11.13. Ensure tools and equipment are scheduled for calibration IAW AFCSM 21-566, and 00-20 Series technical orders.

2.11.14. Ensure reparable parts are promptly processed through repair channels.

2.11.15. Ensure timely accomplishment of delayed maintenance and aggressive follow-up of back ordered parts. Periodically reviews on-line products.

2.11.16. Approve requirements for bench stocks and provide guidance as to the type, location and use by one or more sections. Spot check bench stocks to evaluate adequacy, supply discipline, and housekeeping.

2.11.17. Ensure only designated personnel are verifying urgency of need (UND) I, J and A requirements.

2.11.18. When applicable, ensure warranty items are loaded into CAS and deficiency reports (DR) are accomplished on warranted item failures IAW T.O. 00-35D-54.

2.11.19. Monitor support equipment status and advise Munitions Flight Chief of adverse impacts on flightline support or deployment capabilities.

2.11.20. Coordinate AGE requisitions through Munitions Control flight to ensure support capability and eliminate unnecessary duplication of equipment.

2.11.21. Actively solicit inputs and promotes the product improvement and R&M programs.

2.11.22. Coordinate with dedicated Quality Assessors to receive daily/weekly feedback to evaluate the Quality of maintenance and qualifications of personnel through observation and inspections of maintenance actions.

2.11.23. Ensure operator inspections and user servicing requirements are accomplished on assigned non-powered support equipment IAW T.O. 00-20-7.

2.11.24. Coordinate with the CAS-B SA to submit and follow-up on required difficulty reports (DIREP) when software or procedural errors are suspected or detected.

2.12. Element Supervisor . The Element Supervisor is responsible to the respective Section Superintendent for the management, supervision and training of assigned personnel. The element supervisor is a first-line supervisor of production and, as such, is the technical authority and advisor in that area. The element supervisor will accomplish the following:

2.12.1. Coordinate work shifts with the Section Superintendent to ensure personnel availability to support mission tasking.

2.12.2. Develop planning factors to meet daily mission and contingency support.

2.12.3. Enforce use of prescribed technical data and locally developed checklists.

2.12.4. Evaluate skills, aptitudes and proficiency of assigned people to develop workcenter training requirements.

2.12.5. Perform production and supervisory inspections.

2.12.6. Evaluate production and equipment performance to identify deficient areas and initiates corrective action.

2.12.7. Ensure element personnel and equipment are identified and prepared to meet deployment tasking IAW AFI 10-403, AFI 10-215, AFMAN 10-401 Vol 1 and Vol 2.

2.12.8. Track training requirements and ensure personnel attend required training. Ensure training documentation is accurate and IAW flight guidance.

2.12.9. Review and evaluate QA and other inspection reports. Take corrective action when required.

2.12.10. Evaluate the quality of maintenance and qualifications of personnel through observation and inspection of maintenance actions.

2.12.11. Maintain housekeeping, safety, security and environmental control standards.

2.12.12. Establish a workcenter safety program designed specifically for mishap prevention and the identification and abatement of hazards IAW AFOSH standards and other applicable safety related directives.

2.12.13. Monitor, track, and ensure occupational safety, fire prevention, occupational/environmental health requirements and respirator training (initial and recurring) are accomplished for assigned personnel if required for the duty position.

2.12.14. Provide required maintenance of WRM assets.

2.12.15. Review new, revised, or changed publications and brief personnel of any significant changes. Determine if new or changed publications affect qualifications of personnel or established procedures.

2.12.16. Ensure availability of current publications to meet workcenter needs.

2.12.17. Solicit inputs as well as promote the product improvement and Reliability and Maintainability (R&M) programs.

2.12.18. Ensure personnel properly use, maintain, clean and calibrate support equipment according to users manual, item T.O. and/or 00-20 series technical orders. Notify TMDE when procuring/receiving new TMDE to verify calibration requirements.

2.12.19. Manage the repair cycle program. Reviews pertinent supply products to ensure proper asset management.

2.12.20. Enforce supply discipline.

2.12.20.1. Ensure bench stocks meet production and mobility deployment needs, if applicable.

2.12.20.2. Manage tool storage and replacement, bench stock, and operating stock, if required.

2.12.20.3. Ensure adequate CTKs and special tools are available and controlled IAW AFI 21-101.

2.12.20.4. Spot-check bench and operating stocks to ensure compliance with all required directives.

2.12.21. Inspect equipment to identify deficient areas and initiate corrective actions.

2.12.22. Initiate local manufacture work order requests.

2.12.23. Ensure CTKs, special tool needs, bench stock requirements, MMHE and support equipment properly utilized.

2.12.24. Ensure personnel follow procedures for identifying, recording and clearing CND/repeat discrepancies.

2.12.25. Maintain AFTO Form 95, **Significant Historical Data**, when applicable, according to T.O. 00-20-5, *Aerospace Vehicle Inspection and Documentation* and T.O. 00-20-7.

2.12.26. Ensure vehicle, AGE, MMHE, mission capable (MICAP) reportable equipment and personnel status changes are reported as they occur to Munitions Control or updated in CAS-B and CAMS, as directed by local policy or operating instruction.

2.12.27. Advise Munitions Control, as they occur, of job delays, significant difficulties, job starts and completions, and vehicle, equipment, or personnel shortfalls and update CAS-B, as directed by local policy or operating instruction.

2.12.28. Ensure visual inspections are performed on lightning protection and static ground systems IAW AFMAN 91-201, AFI 32-1065, *Grounding System* and AFOSH STD 91-38, *Hydrocarbon Fuels*.

2.12.29. Ensure Munitions Control is informed of fire symbol, hazard marker, Risk Category or classified munitions changes that effect munitions storage and maintenance facilities.

2.12.29.1. Risk Categories are assigned IAW DoD 5100.76-M, *Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives,* AFI 31-101, *The Air Force Physical Security Program* and AFH 31-223, *The Air Force Resource Protection Program.* Refer to Table 2.1 for Risk Category and Controlled Inventory Item Code (CIIC) conversion matrix.

Table 2.1. Risk Category and Controlled Inventory Item Code (CIIC) Conversion Matrix

Risk Category	CIIC
I	1, 5, 6, E, F, G, H, K, L, S and T
II	2, 8 and N

Risk Category	**CIIC**
III	3, 9, A, B, C, D and J
IV	4, 7, M, P, Q, R and U

2.12.30. Ensure PQDRs are accomplished IAW T.O. 00-35D-54, *USAF Material Deficiency Reporting and Investigating System.*

2.12.31. Ensure the owning workcenter maintenance of TMDE is done and calibration requirements are met IAW T.O. 00-20-14, *AF Metrology and Calibration Program*.

2.12.32. Actively solicit inputs to and promote the technical data improvement programs.

2.12.33. Determine maintenance tasks requiring IPIs. Forward IPI inputs through section superintendent and Munitions Flight Chief.

2.12.33.1. An IPI is defined as an additional supervisory inspection or verification step at a critical point in the installation, assembly or re-assembly of a system, subsystem or component.

2.12.33.2. IPI lists will be reviewed annually.

2.12.33.3. Technical order 00-20-1, *Preventive Maintenance Program General Policy Requirements and Procedures*, specifies requirements for IPIs.

2.12.33.4. For IPI documentation on AFTO Form 244**, Industrial/Support Equipment Record**, and AFTO Form 245, **Industrial/Support Equipment Record (Continuance Sheet),** enter the IPI as a separate entry in Part V. Clear IPIs by following guidance in T.O. 00-20-1 and AFI 21-101.

2.12.34. Ensure each workcenter owning slings, hooks, and other munitions lifting devices inspects them IAW AFOSH Standard 91-46, *Materials Handling and Storage Equipment,* and item technical orders. NOTE: In lieu of the annual proof test, the following procedures apply to slings and lifting devices that are used to lift live munitions items and PGMs.

2.12.34.1. All munitions lifting devices will have documentation of an initial or last proof load test date that includes the weight tested, date performed, and person that performed the test.

2.12.34.2. When any main structural members, such as beams, cables, etc., are manufactured, repaired or replaced the entire assembly must be proof load tested.

2.12.34.3. Hooks must be base lined using the original factory specifications.

2.12.35. Attend the weekly munitions scheduling meeting.

2.12.36. Ensure assigned personnel are trained on all CAS-B applications required to perform workcenter duties.

2.12.37. Ensure training is provided on specific CAMS subsystems if required:

2.12.37.1. Overview of cams applicable subsystem.

2.12.37.2. Interpretation of output products, cams screens, and reject narratives.

2.12.37.3. How to request background products.

2.12.37.4. Provide job data documentation training to section users.

2.12.38. Maintain current volumes of AFCSM 21-series.

Chapter 3

MUNITIONS PRODUCTION SECTION

3.1. Precision Guided Munitions (PGM) Maintenance Element. Inspect, maintain, assemble (including emergency build-up), disassemble and test assigned missiles, other PGM, associated components, training items, support equipment and containers. Munitions Inspector responsibilities and certification procedures established in paragraph **4.2.** are applicable to personnel certified to perform inspection duties in the element.

3.1.1. Inspect load training PGMs at technical order intervals. Close coordination between PGM Maintenance and Weapons Standardization is required to ensure that load training PGMs do not deteriorate between inspection intervals.

3.1.2. Annotate mechanized records on stubby all up round (AURs) to include captive carry missile on which the Guidance Control Unit (GCU) is installed. The AFTO Form 95 or mechanized record for each captive carry missile is annotated to include GCU serial number and all up round (AUR) missile serial number GCU was pulled from, if applicable.

3.1.3. Maintain a schedule of test due dates for Federal Stock Class (FSC) 1325 computer control groups and Guided Bomb Unit (GBU)-15/AGM-130 components. TMRS can be used to schedule and track due dates. This schedule may be maintained by conventional maintenance function at Munitions Flight Chief's option.

3.1.4. Inspect and test FSC 1325 computer control groups and GBU-15/AGM-130 components, as required by item technical order. Inspection and testing may be performed by conventional maintenance function at Munitions Flight Chief's option.

3.1.5. Provide maintenance capability for the missile body assembly and components on Acceleration Monitoring Devices/Assemblies (AMD/AMAs). Maintenance of the AMD is limited to the procedures of T.O. 11G14-4-11, *Field Level Maintenance Accelerator Monitoring Assembly (AMA).*

3.1.6. Appoint TMRS monitor and alternate in writing and provide copies to the MASO and WR-ALC/LKG. Provide updates as changes occur.

3.1.6.1. TMRS database must contain all missiles and unassembled missile components IAW T.O. 21 M-1-101.

3.1.6.2. TMRS must mirror CAS-B's accountable records. Accountability is essential and reconciliation must be accomplished as required, not to exceed the semiannual stockpile inventory cycle. Current reconciliation dates will be identified in the Munitions Capability Report.

3.1.6.3. Update flight hours in TMRS at least weekly on all assigned missiles and report IAW T.O. 21M-1-101.

3.1.6.4. Missile record will be verified against asset during maintenance. If data on record does not agree with asset, it is recommend you contact the RAMS office prior to storage. If this is not possible, make a record of change and have a second person verify reason for change (i.e. different S/N), this will elevate the need to physically re-verify data if difficulty report is received.

3.1.6.4.1. Blocks of serial numbers to be used in formulating missile serial numbers will be assigned by MAJCOMs IAW T.O. 21M-1-101. Contact MAJCOM if additional tail numbers are required for tactical or training missiles.

3.1.6.5. Ensure all missile shipments contain a TMRS disk in the number one container and "Documents Enclosed" is stenciled in close proximity to the item nomenclature.

3.2. Handling/Line Delivery Element. Responsible for delivery of all tasked munitions to aircraft and timely reporting of status to Munitions Control. Works closely with Munitions Control for all flight line support activity.

3.2.1. Manage munitions holding areas, if used.

3.2.2. Assist in the reconciliation of AFI 36-2217 munitions, to include Captive Air Training Missiles/Dummy Air Training Missiles (CATM/DATM), coolant tanks and documenting of PGM flight hours.

3.2.3. Develop procedures for delivery of munitions from the MSA to the flight line. This includes deployment and forward operating location bases, if tasked by unit plans.

3.3. Munitions Support Equipment Maintenance (MSEM) Element. Inspect, maintain and service assigned non-powered Munitions Materiel Handling Equipment (MMHE). This does not include owner-user items such as slings, Munitions Assembly Conveyor (MAC), bomb lift booms, missile handling equipment, etc. The MSEM facility must be provided with heat, plumbing, interior electrical, compressed air distribution system, steam cleaning facilities and adequate lighting. This also includes a mechanical ventilation system, wash rack, tool room, paint booth and office space as prescribed for Aerospace Ground Equipment Section in Air Force Handbook (AFH) 32-1084, *Facility Requirements*.

3.3.1. Document applicable inspection and maintenance actions to include performing scheduled corrosion control on all assigned equipment IAW T.O. 35-1-3, *Corrosion Prevention, Painting and Marking of USAF Support Equipment (SE).* Units that do not have facilities that meet environmental standards to perform corrosion control will schedule the work through the wing corrosion control shop.

3.3.2. Ensure required MMHE is registered and updated in CAMS with information related to quantities assigned and configuration changes such as TCTO completion.

3.3.3. Clean, tag, package and process repairable items.

3.3.4. Submit modification proposals on MMHE IAW DoD 5000.2-R *Mandatory Procedures for Major Defense Acquisition Programs (MDAPS) and Major Automated Information System (MAIS) Acquisition Programs.*

3.3.5. Report status changes on MMHE to Munitions Control.

3.3.6. Document equipment records, IAW 00-20-7.

3.3.7. Maintain the chassis portion of the ammunition loading assembly (ALA), ammunition loading system (ALS), linkless ammunition loading system (LALS) or universal ammunition loading system (UALS), if tasked. The ALA/ALS/LALS/UALS feeder assemblies, ammunition loading assemblies, drums and replenishing tables are maintained by the Armament Systems Flight.

3.3.8. Schedule maintenance requirements beyond the capability of the unit (i.e., hydraulic system repair, sheet metal repair, etc.) through Munitions Control to the appropriate repair function. Units with access to CAMS may request their own work orders for support.

3.3.9. Notify MAJCOM prior to turning in munitions trailers.

3.4. Conventional Munitions Maintenance Element. Assemble, test and repair munitions to support operational requirements and the assigned stockpile. Maintain conventional munitions, containers, dispensers, MMHE and training items. Munitions Inspector responsibilities and certification procedures established in paragraph **4.2.** are applicable to personnel certified to perform inspection duties in the element.

3.4.1. May perform pre-issue, processing, special, and returned munitions inspections as determined by the Munitions Flight Chief.

3.4.1.1. Send documents showing munitions serviceability to inspection, munitions operations and Munitions Control, as applicable.

3.4.1.2. Prepare turn-in documents.

3.4.2. Perform demilitarization of inert munitions, to the level required by item demilitarization code.

3.4.3. Properly tags and packs munitions.

3.4.4. Process/certify munitions residue from flight line and demilitarization operations for turn-in according to T.O. 11A-1-60, *Inspection of Reusable Munitions Containers and Scrap Material Generated from Items Exposed To or Containing Explosives.* Explosive Ordnance Disposal (EOD) certifies and processes all munitions removed from range clearance operations.

3.4.5. Certify empty containers for turn-in to Defense Reutilization Management Office (DRMO) are residue free and properly configured IAW T.O. 11A-1-60. Empty containers will be clearly marked, sealed and segregated from other containers.

3.4.6. Mark loaded 20MM ALS/LALS/UALS with type, lot number, quantity and date loaded.

3.4.7. Maintain type 3A weapons trainer, if applicable (when AFSC 2W2X1 are not assigned).

3.4.8. If not performed by armament personnel, maintain, inspect, test, and repair assigned Naval mine clips and associated equipment.

3.4.8.1. Annotate historical records on MHU-20A/C clip-in assemblies, MB-3A bomb racks and associated equipment as outlined in item T.O..

3.4.8.2. Maintain clip-in assembly conversion kits to meet UCML requirements.

3.4.8.3. Handle prepositioned war stock naval mines only under the direction of the Department of the Navy, Mobile Mine Assembly Group, and not for peacetime loads, exercises, or higher headquarters inspections.

3.4.8.4. Inspect load training naval mines as outlined in local written instructions. Close coordination with Weapons Standardization Section and weapons loading flight is required to ensure load training naval mines do not deteriorate between inspection intervals.

3.4.8.5. Develop local procedures for transportation of naval mines.

Chapter 4

MUNITIONS MATERIEL SECTION

4.1. Munitions Storage Element. Receive, store and handle munitions and training items.

4.1.1. Prepare and schedule munitions for shipment. A Shipping/Receiving Element may be a separate entity at Flight CC/Chief discretion. If established, the Munitions Flight Chief will designate areas of responsibility.

4.1.2. Ensure items are not removed from storage without proper authorization and documentation.

4.1.3. Develop and maintain a master storage plan.

4.1.3.1. This plan is used to manage magazine and storage space usage, control authorized structure net explosive weight (NEW) and maintain authorized compatibility.

4.1.3.2. Utilize CAS reports and programs to the maximum extent possible.

4.1.4. Assist Munitions Operations during munitions inventories.

4.1.5. Notify Munitions Control of all inter or intra area munitions movements. Update appropriate fire symbol, hazard marker or changes as required.

4.1.6. Store munitions according to the flight's storage location system, AFMAN 91-201, AFI 31-101, DoD 5100.76-M, T.O. 11A-1-61-4 and specific item technical orders. Deviations from the storage location system are authorized only with MAJCOM approval.

4.1.7. Make every effort to store all munitions indoors.

4.1.7.1. Use inside (magazine) storage for bulk high explosives, solid propellants and pyrotechnics.

4.1.7.2. Give priority for storage in facilities equipped with IDS to Cat I, Cat II and classified munitions. Munitions storage facilities must meet minimum requirements established by AFI 31-401, *Information Security Management Program* and DoD 5200.1-R for storing classified munitions.

4.1.7.3. Give priority for existing indoor storage to high value assets and items requiring the most protection from the weather.

4.1.7.4. Munitions stored in intermodal containers meet indoor storage criteria.

4.1.8. Request to store munitions outdoors must be submitted to the MAJCOM for consideration.

4.1.9. Maximize use of existing storage facilities for storage of munitions and explosives. General information for munitions warehousing is in T.O. 11A-1-61-4, AFMAN 91-201, AFI 31-101 and general storage procedures in this instruction. Containers placed in storage must be clean, dry and properly marked.

4.1.9.1. Dunnage for inside/outside storage must provide a minimum clearance of 2, 4 or 6 inches from the floor or ground as specified in T.O. 11A-1-61-4. Standard 2x4, 4x4, and 4x6 satisfies these requirements even if they do not measure the full 2, 4 or 6 inches.

4.1.9.2. Provide sufficient space for handling, inventory and inspection of munitions.

4.1.9.3. Ventilate storage spaces to circulate air or dehumidify as needed. Check ventilators IAW AFMAN 91-201 to ensure proper functioning. Close ventilators when blowing snow or humid air would increase condensation.

4.1.9.4. Store only one "LITE BOX" for each lot and condition code, unless custody accounts need more than one LITE box for mobility purposes. All LITE boxes will be located on the top and front of a stack.

4.1.10. Keep structures in good condition and suitable for the storage of explosives in accordance with AFMAN 91-201. Post explosive limits in each magazine and igloo.

4.1.10.1. Magazine exits. Keep doors, door components and locks in good working order. Close and lock magazines at all times, except when being aired, when personnel are in the magazine, or as otherwise permitted by the Munitions Flight Chief. Apply protection criteria as outlined in AFI 31-101 and DoD 5100.76-M.

4.1.10.2. Do not paint fusible links. Ensure they are serviceable, properly installed, and rated for 155 to 165 degrees Fahrenheit (71.1 degrees Celsius) as per AFMAN 91-201.

4.1.10.3. Ensure a minimum of 24 inches of earth covering on igloos IAW AFMAN 91-201 and DoD 6055.9 Std. Properly maintain and monitor to determine evidence of erosion, and initiate timely work requests for civil engineering support.

4.1.10.4. Ensure installation and maintenance of lightning protection systems (LPS). Perform testing and inspection according to AFI 32-1065, *Grounding Systems.* When intermodal containers are used to store munitions, containers should be stored on pads with approved lighting protection systems. If pads do not have LPS, then the containers must have an approved LPS installed, unless the wing commander accepts responsibility and complies with requirements in AFMAN 91-201, paragraph 2.54.2.

4.1.10.5. Keep interiors of storage structures clean and free of prohibited articles and material. Do not store powered lift trucks, dunnage, empty boxes, excess packing material or similar items in a magazine, igloo or other location containing explosives. Do not store paints, oils and other flammable materials in a magazine or igloo containing explosives.

4.1.10.6. Non-combustible equipment required to support approved contingency plans may be stored in explosive facilities for ready use.

4.1.11. Segregate all custody account, courtesy stored, and ammunition disposition report (ADR) munitions from each other and base stock munitions with more than normal lot-to-lot separation using either stanchions, rope, placards, tags, etc. Ensure all boxes containing courtesy stored munitions on custody accounts have the custody account number stenciled on each loose box and all palletized loads.

4.1.12. Determine capability to support munitions storage needs of units requesting courtesy storage. Write and coordinate the agreement with the requesting agency before submitting to the Munitions Flight Chief for approval. The courtesy storage agreement will include the following information:

4.1.12.1. Non-DoD owned explosives and other hazardous and toxic materials will not be stored in the MSA. Refer to Chapter 26 and AFMAN 91-201 for guidance.

4.1.12.2. Technical data on non-DoD materials (required for test) must be provided by the owning organization prior to storage.

4.1.12.3. Responsibility for repairing packing discrepancies, caused by storage conditions, belongs to munitions organizations.

4.1.12.4. The owning organization is responsible for accounting and reporting supply point munitions.

4.1.12.5. Responsibility for care and preservation of munitions/materiel.

4.1.12.6. Names of individuals authorized to remove munitions/materiel.

4.1.12.7. Annual review and renewal dates.

4.1.12.8. Provisions for notifying the flight when access to the munitions/materiel is needed.

4.1.12.9. Users' transportation responsibilities.

4.1.12.10. NSN, nomenclature, and quantity of munitions to be stored.

4.1.13. Use AF Form 4147, **Munitions Movement Control Worksheet** to track all munitions movements, both stockpile and custody account assets moved from one explosives location to another or assets entering/exiting the munitions storage area.

4.1.13.1. The movement control form is a record for the storage element or any other applicable element needing information from the form. Use this form to verify warehouse balances and locations against CAS-B products and TMRS records.

4.1.13.2. Each form will be assigned a control number. The number will consist of the Julian date and sequence number. For example, the first two movement forms issued on the 7135 date will be assigned control numbers of 7135-001 and 7135-002.

4.1.13.2.1. Movement control forms will be issued along with a task workorder.

4.1.13.2.2. All annotations on the form will be legible.

4.1.13.2.3. All applicable blocks on the form will be completed as required.

4.1.13.2.4. Turn-in all forms to storage dispatch (or equivalent) before the end of the duty day. If the task is not complete, the form and workorder will be re-issued the following duty day.

4.1.13.2.5. Storage dispatch (or equivalent) will initial the form after a quality review to ensure all blocks is properly annotated.

4.1.13.2.6. CAS units will update munitions locations in the CAS system the same day the movement was completed using the movement control form.

4.1.13.2.6.1. If the CAS system is not operational, updates will be accomplished as soon as possible.

4.1.13.2.7. Return the movement control form to storage dispatch (or equivalent).

4.1.13.2.8. Verify the accuracy of at least 20 percent of the recorded movements against a CAS transaction history and physically verify 10 percent of the moves for accuracy and completion at least weekly**.**

4.1.13.2.9. File and maintain movement control forms until the next 100 percent inventory is completed, or semi-annually when on a perpetual inventory cycle.

4.1.13.3. Movement forms are not required when performing rewarehousing action within the same storage structure.

4.1.13.3.1. Storage crews will annotate any location changes on a CAS structure/warehouse asset listing, which becomes the accountable movement record and is maintained IAW paragraph **4.1.13.2.9.**.

4.1.13.3.2. Route form through applicable elements/sections, i.e., AFTO Form 15, TMRS, MASO, or document control as required.

4.1.13.3.3. Update CAS after completion of the task.

4.1.13.4. Custody Account assets tracked by Munitions Control are exempt from these movement control procedures.

4.2. Munitions Inspection Element. Perform surveillance inspections of munitions to determine and identify serviceability, potential hazards and possible deterioration. This may include measuring, observing, inspecting, testing, analyzing, classifying, and recording inspection results of munitions and components in movement, storage and use**.** The Munitions Flight Chief appoints the senior munitions inspector as the focal point to verify qualification and training of all personnel appointed as Munitions Inspectors.

4.2.1. Senior Munitions Inspector will:

4.2.1.1. Establish a comprehensive training and certification program that will be completed by all inspectors regardless of functional area. As a minimum this will include:

4.2.1.1.1. Establish local procedures for currently qualified inspectors to include recent changes in munitions inspection operations, CAS-B programs, lot history updates, AFTO 102 procedures, general inspection procedures and condition code tags.

4.2.1.1.2. Validation of initial inspector qualifications is accomplished by senior inspector by performing an over the shoulder evaluation prior to appointment as a certified munitions inspector.

4.2.1.1.3. Annual re-certification to all assigned certified inspectors.

4.2.1.2. Review the accuracy of CAS generated products to ensure the proper scheduling and management of all inspections, shelf/service life and restrictions for base and custody munitions assets.

4.2.1.3. Ensure the inspector performing the inspection performs CAS inspection updates.

4.2.2. Select personnel for munitions inspector as follows:

4.2.2.1. AFSC 2W051/71/91. SEI 836 identifies personnel with previous munitions inspector experience.

4.2.2.2. Quality Assurance Specialist (Ammunition Surveillance) with a GS-1910 series.

4.2.2.3. Contractors or civil service personnel filling munitions inspectors' positions must have at least 4 years experience in ordnance/munitions related career field and at least 2 years experience as a munitions inspector.

4.2.2.4. Personnel selected must complete the AETC Munitions Inspection Course (by in-residence or mobile training team) or MAJCOM Munitions Inspection Seminar.

4.2.2.5. Send request for assistance or deviation from inspector selection requirements to MAJCOM. Failure to forecast for training is not considered grounds for deviation.

4.2.3. Inform the MASO and Munitions Control immediately upon receipt of T.O. 11A-1-1, *Conventional Ammunition Restricted or Suspended* actions affecting munitions serviceability.

4.2.4. Monitor shelf/service life dates by reviewing CAS documents, assembly build sheets or the AFTO Form 15, **Airmunitions Serviceability and Location Record**, file and coordinates changes/updates with the MASO.

4.2.5. Determine and assign appropriate condition codes to all munitions assets as directed by applicable technical orders.

4.2.6. Initiate, maintain and process applicable documents and historical records.

4.2.7. Ensure proper tagging, marking and packing of munitions assets. Affix applicable DD Form 1500 series serviceability tag on assets in other than condition code "A". Provide guidance necessary to ensure standard entries on all condition code tags. Ensure all loose boxes or palletized loads issued to a custody account are clearly stenciled with the applicable custody account number.

4.2.8. Verify accuracy of inspection documentation and signs inspection form(s).

4.2.9. Certify empty containers for turn-in to DRMO are residue free and properly configured IAW T.O. 11A-1-60. Empty containers will be clearly marked, sealed and segregated from other containers.

4.2.10. Unless specifically required by the item T.O., cosmetic defects (dirt, chipped paint, etc.) that do not affect function or serviceability are acceptable. However, where deemed necessary, cleaning and touch-up is a user responsibility.

4.2.11. A competent authority for directing munitions Special Inspections, as referred to in T.O. 11A-1-10, is defined as one of the following: appropriate ALC, MAJCOM, or Munitions Flight Chief.

4.2.12. Establish and manage the Storage Monitoring Inspection (SMI) program.

4.2.13. Perform receiving inspections within 30 days of receipt.

4.3. Munitions Operations Element.

4.3.1. Perform inventories and establish accountable procedures IAW this instruction.

4.3.2. Manage custody accounts.

4.3.3. Submit requirements forecasts for agencies without MAJCOM Munitions User Functional Manager (MUFM).

4.3.4. Manage approved allocations. Ensure all allocated/authorized munitions are on-hand or due-in and provides each munitions user with written notification of their approved allocation and subsequent allocations.

4.3.5. Is the focal point for processing and filing accountable/auditable documents.

4.3.6. Use CAS to the maximum extent possible, and report system discrepancies (DIREPs) as required.

4.3.7. Assist the Munitions Inspection Element in developing a master inspection schedule and in monitoring shelf and service life to ensure disposition actions (24 months in advance) are initiated for items that cannot be used prior to expiration of the service/shelf life.

4.3.8. Ensure all past and present users of affected national stock/lot numbers are notified of munitions suspended or restricted by T.O. 11A-1-1.

4.3.9. Manage AF Form 191, **Ammunition Disposition Requests** (ADR)/CAS-B to ensure appropriate actions are taken on unserviceable munitions.

4.3.10. Ensure all munitions operations personnel are trained on CAS-Deployable procedures.

4.3.11. Maintain a deployable CAS system (microcomputer, printer and software) for each independent deployable unit wartime tasking. Ensure most recent version of CAS-D software is installed and operating correctly (test each software version to include data reporting to the Regional or Theater Ammunition Control Point (RACP or TACP).

4.3.12. Ensure munitions operations personnel are trained on the RCS: HAF-ILX(AR)-7124, **Item of Special Interest Report** procedures in AFMAN 10-206, *Operational Reporting*.

4.3.13. Advise the Materiel Section Superintendent of the supply status and availability of accountable items to support the mission. Ensures WRM munitions are not released for peacetime use without approval IAW **Chapter 33** and AFI 25-101.

4.3.14. Develop and publish a customer guide, IAW AFPD 21-2 and this instruction to provide using agencies with procedures for obtaining munitions support.

4.3.15. Reconcile the ADR file, AFTO Form 15 file or CAS Lot history once a month.

4.3.16. Monitor MASO managed munitions components (to include kits) required for munitions TCTOs and provide updates and due-in status to Munitions Control.

4.3.17. Monitor munitions Due-in from Maintenance (DIFM) assets.

4.3.18. Ensure awaiting parts (AWP) status is provided for munitions (FV) items.

4.3.19. Coordinate with inspection and storage elements before requisitioning new items or large quantities of munitions to confirm storage space and technical data is available.

4.3.20. Limit munitions requisitions to yearly allocations, plus or minus Quantity Unit Pack (QUP).

4.3.21. Provide a listing of all munitions types stored and maintained to the EOD unit providing support. This list is provided annually and updated as changes occur. This listing will include all assigned and contingency tasked munitions.

4.3.22. Initiate follow up action for conventional munitions with OO-ALC/WM and air-to-air missiles with WR-ALC/LKGL for all requisitions made against wing SRAN/DoDAACs.

4.3.23. Ensure munitions shipments are properly booked through transportation channels and shipments are aggressively tracked to ensure timely departure. Report difficulties in getting munitions shipments out to the Munitions Flight Chief for resolution. This responsibility may be delegated to a different element at the option of the Munitions Flight Chief.

4.3.24. Ensure WR-ALC managed guidance systems for AIM-7 and AIM-9 missiles have unserviceable shipment Transportation Control Number (TCN) and quantity of failed items in the “Comments”

field for requisitions made through CAS-B. Units failing to include required data will receive a denial status code of “CA” with reason for rejection

4.3.25. Ensure OO-ALC managed guidance systems are requisitioned as failures occur. Unserviceable units will be auto-shipped back to the depot; shipping containers will be ordered if none are available.

4.3.26. Review the appropriate Base Supply records to ensure DoD stocklisted non-nuclear munitions, missiles, and related explosive/inert components that should be managed by the MASO (see paragraph **12.5.2.1.**) are not on Base Supply records.

Chapter 5

MUNITIONS SYSTEMS SECTION

5.1. Munitions Control Element. The focal point for planning, coordinating, directing and controlling all Munitions Flight activities. Munitions Control will coordinate with other maintenance activities and emergency response agencies to ensure effective scheduling and use of available resources. It must be located, equipped and arranged to ease the collection, recording and dissemination of information essential for command, control and communications.

5.1.1. Personnel must adapt well to stress, speak clearly and concisely. Must have a working knowledge of all munitions functional areas.

5.1.2. Facilities must meet the following minimum standards, to include construction to meet the minimum security standards commensurate with the information maintained and stored.

5.1.2.1. The door must be of solid wood or metal faced construction with a peephole or other suitable method to identify personnel before granting entry. Doors must be mechanically or electrically locked to control access.

5.1.2.2. Room(s) are completely enclosed, air conditioned, and heated. Walls and ceilings are covered with acoustical material to reduce noise levels.

5.1.2.3. Floors are covered with an industrial grade carpet.

5.1.2.4. Standby power and emergency lighting are required.

5.1.2.5. Two dedicated munitions Land Mobile Radio (LMR) Nets, 1 for production and 1 for materiel.

5.1.2.6. Secure voice communication capabilities, Secure Telephone Unit-III (STU-III)

5.1.2.6.1. Establish a Secure Internet Protocol Network (SIPRNET) if available.

5.1.2.7. Dedicated telephone lines to:

5.1.2.7.1. Security Forces Central Security Control, law enforcement and the MSA entry control point.

5.1.2.7.2. Explosive Ordnance Disposal (EOD), if assigned.

5.1.2.7.3. Base Fire Department.

5.1.2.7.4. Command Post.

5.1.2.7.5. Munitions Flight office, when required by location.

5.1.2.7.6. Command Operations Center.

5.1.2.7.7. Maintenance Operations Center (MOC).

5.1.2.7.8. All munitions workcenters.

5.1.3. The following will be maintained utilizing visual aids (i.e. notebooks, boards, computers, etc.):

5.1.3.1. Workorder status for all munitions/maintenance operations to include;

5.1.3.1.1. Location of operation.

5.1.3.1.2. Crew size.

5.1.3.1.3. Description of Operation.

5.1.3.1.4. Start/Stop time.

5.1.3.2. TCTO status to include;

5.1.3.2.1. TCTO number.

5.1.3.2.2. Number of kits ordered (quantities, document number and date).

5.1.3.2.3. Number of kits received (quantity and date).

5.1.3.2.4. Number completed.

5.1.3.2.5. Number not completed.

5.1.3.2.6. Rescission date.

5.1.3.2.7. Lot/serial number.

5.1.3.3. Current copy of the master identification (ID) listing. The master ID listing can be a combination of any (TMRS, CAS, CAMS etc.) listings/visual aids that list all equipment assigned.

5.1.3.3.1. Assign ID numbers for end items according to 00-20 series T.O.s and makes inputs to update the master ID listing.

5.1.3.4. Update visual aids/listings to reflect current status and recurring maintenance cycles.

5.1.4. Maintain map(s) showing the entire munitions storage area(s), primary and alternate explosives routes, evacuation route(s), and sited explosives locations outside the MSA (e.g.: aircraft parking locations, hot cargo pads, railheads, munitions holding areas, etc.).

5.1.5. Maintain records and documentation on the following:

5.1.5.1. Inspections and ohms testing results of lightning protection, static ground systems and static grounded worktables. Testing and visual inspection will be performed at intervals according to DoD 6055.9-STD, *DoD Ammunition and Explosive Safety Standards*, AFMAN 91-201, and AFI 32-1065.

5.1.5.2. Work requests that adversely affect the function of a facility, to include subject, work order number and date submitted.

5.1.6. Develop, maintain and use emergency action check-sheets such as war/contingency plan execution notification, crash, fire, severe weather and explosive mishaps. Use unit operational guides and MAJCOM Emergency Action File (EAF) as a guide to develop checklists.

5.1.7. Maintain all applicable war and contingency plan annexes/appendixes on file. Develop generation flow plans in support of in-place or deployment contingency OPLANs. Automated AF Form 2409, **Generation Sequence Action Schedule**, is authorized to outline the scheduled actions (i.e., aircraft configuration, munitions build-up, break-out/delivery locations).

5.1.7.1. The form is completed and sent to appropriate elements as soon as possible after plan implementation.

5.1.8. Maintain status of the following using Munitions Control 2000 (MC2K):

5.1.8.1. Listing of individuals authorized access to keys (structure, bay, etc.).

5.1.8.2. MICAP reportable equipment status.

5.1.8.3. Munitions trailer status. (Types, quantities, and locations, ID numbers or locally assigned field numbers, commission status, periodic inspection due dates, nuclear certification).

5.1.8.4. Vehicle status (Types, registration number, commission status, nuclear certification).

5.1.8.5. Facility status (Facility number, fire, hazard symbol of each facility, highest Risk Category and if classified munitions are maintained in the structure). Refer to **Table 2.1.** for Risk category and CIIC conversion matrix.

5.1.8.6. Assembled, ready munitions or missiles including training munitions. Include sortie surge and AFI 36-2217 munitions.

5.1.8.7. Personnel status (Authorized, assigned, available for duty).

5.1.8.8. Aircraft or munitions generation status (Aircraft tail number, location, type munitions and quantity).

5.1.8.9. Notification of Security Forces and Fire Department.

5.1.8.10. Missile and guided munitions, built-up (ready) and captive (Serial/assembly lot numbers, cumulative flights, days on aircraft (if required), number of captive flights, hours since last inspection.).

5.1.8.11. Munitions test equipment status (in/out).

5.1.9. Track work order progress and in the event of conflicts assigns priorities. Develop a manual work order system (blocks of job control numbers, logs, etc.) for deployments and backup during interrupted CAS service. Units not using the CAS-B work order process will develop local written procedures for the work order process.

5.1.9.1. Using procedures in T.O. 00-20-2, create a block of job control numbers (JCN) for initiating work orders for unscheduled maintenance actions.

5.1.10. Manage the awaiting maintenance (AWM), awaiting parts (AWP), and TCTO programs. Review these programs weekly during the scheduling meeting. Automated capabilities of CAS-B will be used to the maximum extent possible to manage the program.

5.1.10.1. Keep the deferred discrepancy file (AWM/AWP) on munitions items and equipment, except aircraft components, for scheduling purposes. This may be decentralized at the Munitions Flight Chief's option.

5.1.10.2. TCTO status tracking will be accomplished IAW AFI 21-101, *Maintenance Management of Aircraft*, T.O. 00-5-15, *AF Time Compliance Technical Order System*, and T.O. 00-20-2. Munitions control is the flight focal point to the wing plans, scheduling, and documentation administered program.

5.1.10.2.1. Determine if TCTOs apply to unit assigned munitions, missiles and MMHE.

5.1.10.2.2. Plan, schedule and coordinate with munitions accountability and maintenance supply liaison on all TCTO requirements.

5.1.10.2.2.1. TCTOs or alterations on nuclear weapons will be planned, scheduled and coordinated with Nuclear Ordnance Commodities Management (NOCM), 2W2 maintenance and/or nuclear agency. Refer to AFI 21-204 for additional information.

5.1.10.2.3. Munitions control attends the monthly reconciliation meeting, when required.

5.1.11. Prepare and consolidate quarterly, monthly maintenance and inspection forecasts and weekly munitions maintenance and inspection schedules. Depending on the unit workload, MAJCOMS may authorize units to use either a monthly or quarterly maintenance and inspection forecast.

5.1.11.1. Periodic inspections of munitions by item and lot or serial number.

5.1.11.2. Fire drills.

5.1.11.3. Munitions monthly, quarterly and semi-annual inventories.

5.1.11.4. Munitions requested to support aircrew training.

5.1.11.5. Inspection and maintenance of munitions test and support equipment by type and serial or ID number.

5.1.11.6. TCTO actions.

5.1.12. Conduct the weekly munitions scheduling meeting. As a minimum, the following areas will be discussed and the schedule will include:

5.1.12.1. AWM/AWP status. Every effort is made to add AWM work to the schedule during the meeting.

5.1.12.2. TCTO status.

5.1.12.3. Proposed work schedules.

5.1.12.3.1. Show realistic start times for work on the day it is scheduled. Avoid the use of “as required” work-orders since they inhibit the effective use of resources.

5.1.12.4. Inputs from the monthly and quarterly schedule.

5.1.12.5. Vehicle/Equipment status, to include mobility.

5.1.12.6. Aircraft flying schedule requirements.

5.1.12.7. Personnel status.

5.1.12.8. T.O. changes.

5.1.12.9. Munitions monthly, quarterly and semiannual inventories.

5.1.12.10. Mobility equipment inspections.

5.1.12.11. Hazardous waste disposal equipment inspections and maintenance.

5.1.12.12. Status of actions taken for approved ADRs.

5.1.13. Promptly make the following notifications:

5.1.13.1. Inform Security Forces of changes in magazine contents affecting classification or Risk Category and document notification.

5.1.13.2. Inform the Fire Department of any “Class A” explosives movements outside the MSA or of changes in magazine contents affecting fire symbols or hazard symbols and document notification.

5.1.14. Schedule, control, and direct the maintenance of inert and dummy training items and non-powered munitions support and handling equipment.

5.1.15. Is the focal point for the daily reconciliation of AFI 36-2217 expenditures, and tracking of missile flying hours. At the end of the flying day, ensures all AF munitions issued to the flight line are accounted for. Units with 24-hour flying operations can perform reconciliation at a time deemed appropriate for maximum effectiveness.

5.1.15.1. If unable to reconcile, Munitions Control contacts the appropriate functional area to determine if the disparity is due to an error in reporting, documentation or physical loss. Until accounts are reconciled, no more munitions will be delivered.

5.1.16. Monitor the status of all assembled munitions and missiles to include service life expiration of components.

5.1.17. Notify supporting activities before starting hazardous operations or training exercises, such as chemical operations, fire drills, evacuation drills, or EDM exercises.

5.1.18. Attend daily or weekly maintenance operations scheduling meetings to update munitions support requirements. The individual attending these meetings must be knowledgeable of all munitions support capabilities and limiting factors.

5.1.19. Control keys to assigned munitions facilities, using approved written procedures. Munitions Storage Element may control keys at Munitions Flight Chief's option, provided written procedures are developed designating specific responsibilities.

5.1.19.1. Key, Lock and Cylinder Control procedures for nuclear weapons facilities are in AFI 21-204.

5.1.19.2. Key and lock control procedures for conventional munitions facilities are contained in DoD 5100.76-M, AFI 31-401, and the following:

5.1.19.2.1. Munitions flight chief will appoint in writing the key and lock custodians who are responsible IAW governing directives for the control of keys, locks, and hasps that secure munitions maintenance and storage facilities.

5.1.19.2.1.1. Key and lock custodian(s) will have a security clearance equal to or greater than the munitions items being secured by the keys and locks.

5.1.19.2.1.2. Letter of appointment will include name, enlisted/officer, SSAN and security clearance. Ensure letter has the required privacy act statement and is marked "For Official Use Only" (FOUO).

5.1.19.2.2. High/Medium security locks and cylinders are received with three keys. One control (maintenance) key, one primary and one spare are provided with each lock/cylinder. The control key is only used for disassembly and lock maintenance and is not issued for normal operation of the padlock. Low security locks do not have a control key. Primary and spare keys are kept segregated for storage and issue. The control keys may be stored with the spare keys. Segregation may be accomplished by separating key sets into key boxes (one box for the primary key set and one box for the spare and control key sets) within the key storage container. The following additional requirements must be met:

5.1.19.2.2.1. Master keying is prohibited. Keys to high, medium and low security locks must not be duplicated locally.

5.1.19.2.2.2. Cylinders are replaced if unauthorized access to, or loss of, a key (control, primary or spare) occurs. These cylinders are not reused to secure munitions maintenance and storage structures.

5.1.19.2.2.3. If primary or spare key is broken for a high or medium lock cylinder and all pieces of the broken key are recovered, destroy the broken key pieces. Annotate the AF Form 2427, **Key and Lock Control Register**, with the destruction of the broken key and that only two keys remain for that lock. Two keys are sufficient for storage of conventional munitions as long as one key is the control key.

5.1.19.2.2.4. Broken or damaged control keys require replacement of the cylinder.

5.1.19.2.2.5. If locks or cylinders become unserviceable, order replacements IAW T.O. 44H2-3-1-101, *Operation and Maintenance Instruction, High, Medium, Low Security Hardware.* The following information is provided for disposition of high/medium security locks: Send to:

W80QG0 XU ASL PACKAGE PROCESSING POINT
DEFENSE DISTRIBUTION DEPOT- SUSQUEHANNA
NEW CUMBERLAND, PA 17070-5001

MARK FOR:
M/F: TOM KINISKY
WHSEl 50
DSN: 977-6818/6492

Note: Locks will be shipped in a wooden box beccause of their weight.

5.1.19.2.2.6. Locks are inspected and lubricated at least every 6 months. To maintain system integrity, only those maintenance actions listed in T.O. 44H2-3-1-101 are authorized. Document maintenance using a locally developed method.

5.1.19.2.2.7. Store all munitions structure keys IAW DoD 5100-76-M when not attended or in use.

5.1.19.2.2.8. Room where structure keys are stored will be secured during non-duty hours. Access to the room is restricted to personnel authorized by the Munitions Flight Chief.

5.1.19.2.2.9. For classified munitions, keys will be protected as classified material with a classification at least equal to the items being protected.

5.1.19.2.2.10. All keys removed from their storage container must remain under constant surveillance.

5.1.19.2.2.11. Padlocks will be locked to the hasp when the entry gate, munitions structure or key container is open to prevent theft or substitution of the lock

5.1.19.2.2.12. Units may setup reserve stocks of locks and cylinders to support preventative maintenance and scheduled rotation/replacement. Keep reserve stocks in a safe, metal box, or similar container protected by a GSA-approved 3-position combination lock. Reserve cylinders and keys will be inventoried during the key and lock audit.

5.1.19.2.3. The Munitions Flight Chief designates personnel authorized to issue/receive keys in writing. Ensure letter has the required privacy act statement and is marked "FOUO". Pen and ink additions are prohibited, however pen and ink changes to delete individuals from the list is authorized.

5.1.19.2.3.1. List will include name, grade, (i.e. Officer/enlisted), Security Clearance and SSAN. Personnel authorized to issue keys may be authorized to receive keys.

5.1.19.2.3.2. Issue authorities will maintain a current copy and verify authorization prior to issuing/transferring keys.

5.1.19.2.3.3. Personnel receiving keys will have a security clearance equal to or greater than the munitions items being secured by the keys and locks. Ensure document has the required privacy act statement and is marked "FOUO".

5.1.19.2.4. The AF Form 2432, **Key Issue Log**, is used to control keys that secure maintenance and storage facilities. The key issue log is annotated when keys are issued, turned in, transferred or inventoried. Separate forms are used for each primary, spare, and control key set. Mark top of forms with the appropriate set title.

5.1.19.2.4.1. Dual signature is not required unless directed by DOD 5100.76-M and AFI 31-101. If required, both individuals will remain at the facility while it is open and these assets will not be transferred to a lone individual.

5.1.19.2.4.2. Units are authorized to maintain multiple key issue logs when deemed necessary. Groups of keys may be issued to a munitions function then re-issued to authorized individuals. A separate log will be used to document the re-issue. Munitions Control will maintain all historical documentation.

5.1.19.2.4.2.1. Individuals designated as key issuing authorities are authorized to transport all keys between the non-duty hour storage facility and the duty hour issuing location. Only one authorized individual is necessary to transport conventional keys.

5.1.19.2.4.3. Both the primary and spare keys may be issued when required to support daily operations. This practice should be discouraged and closely monitored for adverse trends.

5.1.19.2.4.4. AF Form 2432 documentation requirements for key issue are as follows:

5.1.19.2.4.4.1. Enter structure and bay (as applicable) number in the structure column. Multiple structures and bays may be entered on one line as long as all entries are legible.

5.1.19.2.4.4.2. Local time will be entered in the 24hrs format.

5.1.19.2.4.4.3. Enter date entries in the day, month, and year format (1 Apr 98).

5.1.19.2.4.4.4. Individual(s) receiving the key will sign their full name and print their last name in the “out signature” column, block 1. Individual issuing key(s) will sign their full name and print their last name in block 2.

5.1.19.2.4.4.5. Individual(s) returning the key will sign their full name and print their last name in the “in signature” column, block 1. Individual receiving the key(s) will sign their full name and print their last name in block 2.

5.1.19.2.4.4.6. For dual signature structures, two line entries with the same structure number will be used.

5.1.19.2.4.4.7. Transfer between individuals authorized to receive keys may be made with specific approval of the key issuing authority. Single key transfers are prohibited if multiple keys are signed out on one line. Upon transfer of keys, the key issuing authority annotates the log as follows:

5.1.19.2.4.4.7.1. On the next available line, key-issuing authority enters the structure number(s), time and date of transfer, and prints the name of the individual receiving the key(s) in block 1 of the out-signature block.

5.1.19.2.4.4.7.2. Key issuing authority will enter time and date and sign the line corresponding with the name of the original individual receiving the key(s). Print “Key Transfer” in block 1 of the in-signature block. Individual issuing key(s) will sign their full name and print their last name in block 2.

5.1.19.2.4.4.7.3. Upon return of the transferred key(s), the individual returning the key will enter time and date and sign the in-signature block corresponding to their printed name.

5.1.19.2.4.4.8. For dual signature structures, two line entries with the same structure number will be used.

5.1.19.2.5. Primary, Spare and Control key sets are inventoried by serial number at the end of each shift if issued and weekly if not issued.

5.1.19.2.5.1. If a coded device such as a railroad seal is attached to the key box in a manner that entry into the key box can be detected, verifying seal integrity and annotating key log may complete inventory for key boxes with keys that have not been issued.

5.1.19.2.5.2. Keys, locks and cylinders are audited and documented with each change of key and lock custodian.

5.1.19.2.6. When not in use, keys will be returned to key issuing authority (i.e. don’t take keys to lunch, home, etc.).

5.1.19.2.7. Keys to maintenance facilities are controlled in the same manner as keys for their respective storage facilities.

5.1.19.2.8. Keys to conventional facilities are not stored in the same key box as the keys to nuclear facilities. This restriction does not preclude a conventional facility key box from being stored in the same safe as the nuclear facility key box.

5.1.19.2.9. An AF Form 2427 is used to control locks, cylinders, and keys used on conventional maintenance and storage facilities, including reserve locks, cylinders and keys. Once full, dispose of forms IAW AFMAN 37-139 or 1 year, whichever is longer.

5.1.19.2.9.1. High security keys are normally received with the manufacturer's serial number engraved on an attached metal tag. Units will develop local key serial numbers or use the manufacturer's serial number and engrave/stamp them on the bows of the keys to aid in auditing and control. Annotate both the local serial number (if assigned) and manufacturer's serial number on the AF Form 2427 for correlation purposes. Once the key custodian verifies the annotation for accuracy, the tag with the manufacturer's serial number can be destroyed. Do not apply any additional markings to cylinders and locks.

5.1.19.2.9.2. AF Form 2427 documentation requirements for control of lock, cylinders and keys are as follows: Column 2 and 3 may be in pencil, all other entries must be typed or in ink.

5.1.19.2.9.2.1. Column 1: Annotate the manufacturer and locally assigned serial numbers.

5.1.19.2.9.2.2. Column 2: Enter the specific locations (building, cubicle, bay, etc.) of the lock associated with the key serial number listed in column 1.

5.1.19.2.9.2.3. Column 3: Enter date the lock was installed at the location specified in column 2.

5.1.19.2.9.2.4. Column 4: Enter the building number where the primary, spare and control keys are stored. If the spare and the control keys are stored in different buildings, both locations will be entered in the "spare" block of column 4.

5.1.19.2.9.2.5. Column 5: Enter the date locks, cylinders, and keys was audited. Only one line entry in column 5 is needed to document the audit of the entire page.

5.1.19.2.9.2.6. Column 6: The person performing the audit will sign to certify audit completion. Only one line entry in column 6 is needed to document the audit of the entire page.

5.1.19.2.9.3. Rotate or replace high security locks securing classified munitions at least annually. Document this action on the AF Form 2427.

5.1.19.2.9.4. Audit locks, cylinders, and keys semi-annually IAW DoD 5100.76-M. The audit consists of a physical check of each lock in-use on maintenance and storage structures and reserve stocks. A physical check of each munitions maintenance and storage structure must be made to verify that the installed locks are the same as the padlock location shown on the AF Form 2427. Lock/cylinder maintenance may be performed at the time of the audit.

5.1.19.2.9.5. Strike through any annotation of locks taken out of service.

5.2. Combat Ammunition System-Base (CAS-B) Element. The CAS-B Element is responsible for the continual operation of the mainframe system, remote terminals, user accounts, local communications network, operational security considerations, commensurate with mission needs. CAS-B is the standard USAF "accountable" base-level automated munitions data system. It integrates stockpile and production

management into a single stand alone automated system. Directly supports combat sortie generation, implements Automated Information Management Technology, and automates conventional munitions maintenance and inventory control functions.

5.2.1. The objective of CAS is to enhance United States Air Forces combat capabilities and logistics by providing effective munitions management, accountability and fiscal control at each level of combat direction and execution from the base-level unit through the Joint Chiefs of Staff.

5.2.2. CAS-B host sites (not satellites) use the CAS mainframe computer. For each host site the unit commander must approve all CAS-B trusted officials (SA, CSSO and SOs).

5.2.2.1. The SA is responsible for the day to day operation of the CAS-B element and main frame operations. The Munitions Flight Chief will ensure required computer operation and communications security publications are on hand. Publication requirements are identified AFCSM 33-824, Vol 1. Each munitions workcenter, with a CAS-B terminal, must have or have immediate access to AFCSM 21-824.

5.2.3. Each CAS-B host site will have a minimum of two system operators that have attended the CAS-B 3B2 system administrators course. The System Administrator must have attended the Course and be fully trained on the day to day operations of CAS-B mainframe operations as outlined in AFCSM 33-824. Class dates may be scheduled through the MAJCOM.

5.2.4. Communications used to transmit CAS-B data via Defense Data Network (DDN) must be checked daily to ensure connectivity to CAS-C and CAS-A. Incoming and outgoing CAS DDN data must be processed without error daily. These programs are critical to the management of munitions at each level of combat execution.

5.2.5. CAS-B units will notify MAJCOM in the event of communication problems or system outages. If communications cannot be restored within two duty days, contact MAJCOM for alternate means of sending the data.

5.2.6. Prior to reporting trouble calls to the CAS Help Desk, reference the Help Desk Pre-call Checklist located in AFCSM 33-824 Vol 1. Inform MAJCOM (CAS-C) of the trouble call.

5.2.7. The use of CAS-B program ISC05A, Manual Record Load Master Menu is limited to the SA for problems that can not be resolved by use of standard CAS-B programs (workarounds) and the CAS Global Call Center.

5.2.7.1. The SA will verify current DIREPs for a preexisting problem and use approved workaround if available.

5.2.7.2. Prior to using this program the unit must have the recommendation from the CAS Global Call Center, approval from the MASO and authorization from MAJCOM (CAS-C).

5.2.7.3. The MASO remains fully accountable for manipulated files and data.

5.2.8. The CSSO is the focal point for issuing CAS-B user IDs and passwords. The CSSO must establish security procedures for the protection of the CAS-B system, remote terminals and other security considerations as defined by Air Force Instructions and local DAA.

5.2.9. The CSSO will maintain a current roster of all personnel authorized access to the system. The CSSO will ensure personnel departing Permanent Change of Station (PCS) or Permanent Change of

Assignment (PCA) are formally removed from the CAS-B system prior to their departure from station.

5.2.9.1. In conjunction with the MASO ensure personnel clear through document control prior to departure.

5.3. Combat Plans/Mobility/Training Standardization Element. This element will be established in all flights that have a combat mission. The element is responsible for administering combat plans for the flight to include deploying resources and the Combat Munitions Training Program (CMTP). Focus must be directed on the flight's capability to support all contingencies in tasked OPLANs with trained personnel and optimum resources. Responsibilities as outlined in this paragraph can be expanded, as long as it does not degrade the flights combat capabilities. This element is not required for Central Air Force (CENTAF) units.

5.3.1. Combat Plans is the flight's focal point for mobility planning and execution. Combat plans supervisor will:

5.3.1.1. Develop CMPs in support of all tasked OPLANs. CMPs will be developed IAW **Chapter 9**. Maintain copies of all CMPs and supporting documents on file.

5.3.1.1.1. Develop munitions lesson plans to cover the CMTP.

5.3.1.2. Direct munitions deployment planning in coordination with the Munitions Flight Chief and section superintendents.

5.3.1.3. Be fully knowledgeable with all applicable war and contingency plan annexes/appendixes, which pertain to the Munitions Flight.

5.3.1.4. In conjunction with section superintendents, identify equipment and personnel to meet all deployments.

5.3.1.5. Assure deploying personnel are trained and provided with the necessary documents, individual equipment and immunizations.

5.3.1.6. Maintain and account for all personnel mobility folders.

5.3.1.7. Monitor personnel and equipment availability identified to support deployment plans, and maintain current status lists using MC2K.

5.3.1.8. Verify flight equipment is marked, packaged and inspected at the required intervals.

5.3.1.9. Provide weekly status to the Munitions Flight Chief at the weekly scheduling meeting, highlighting any potential/actual limiting factors and recommended corrective actions.

5.3.1.10. Assist Munitions Control in the generation of flow plans in support of in-place or deployment contingency OPLANs.

5.3.2. The Training Element NCOIC oversees the munitions training program for the Munitions Flight/Commander. He or she implements training standards approved by the Munitions Flight/Commander; develops training plans, local policies and procedures. The Training Element NCOIC:

5.3.2.1. Coordinates with other munitions element chiefs to schedule munitions buildup crews for training and evaluations.

5.3.2.2. Establishes a supply point and manages munitions buildup training munitions, components, and accessories, if necessary. Reviews and validates the annual munitions flight training munitions forecast. Ensures training munitions are serviceable and mirror parent munition to the maximum extent possible. Schedule munitions for maintenance.

5.3.2.3. On notification of a deployment or an increase state of alert, train munitions buildup crews on the units munitions requirements, as required.

5.3.2.4. Maintains a copy of munitions technical data, checklist, Operating Instructions (OI) for assigned munitions on the unit's UCML.

5.3.2.5. Conducts and monitors training to ensure personnel maintain a high degree of proficiency in building unit committed munitions.

5.3.2.6. Reviews AFTO Forms 22, *Technical Order Improvement Report and Reply,* that pertain to munitions training and recommends approval/disapproval to the munitions flight chief/commander.

5.3.2.7. Monitors certification and recurring training documents to ensure all munitions flight personnel have completed required proficiency and academic training. Takes decertification action if recurring requirements are not met.

5.3.2.8. Develops and coordinates weekly and monthly munitions buildup training schedules, and provides them to Munitions Control to publish in the weekly/monthly munitions maintenance schedule.

5.3.2.8.1. Monitors and evaluates buildup crews in the performance of their duties.

5.3.2.8.2. Performs periodic evaluations on all buildup crews. Evaluations can be conducted in support of local training exercises.

5.3.2.9. Provides non-munitions augmentee personnel initial and recurring munitions buildup task qualification training, including practical training on the proper use, installation, and buildup of munitions system, and munitions safety requirements.

5.3.3. The Munitions Flight Chief will approve all formal CMTP and Munitions Assembly Conveyor (MAC) lesson plans for academic classroom instruction after coordination with Wing safety (overall safety content) and Quality Assurance (technical accuracy). Lesson plans will include:

5.3.3.1. A training objective for each primary munitions item listed in the UCML.

5.3.3.1.1. Develop lesson plans using MAJCOM course control requirements. Ensure buildup training covers requirements outlined in the CFETP, item tech order, 11A-1-63, MAJCOM and flight CMTP requirements.

5.3.3.1.1.1. Lesson plans will contain as a minimum:

5.3.3.1.1.2. Course Title

5.3.3.1.1.3. Student Instructional Material.

5.3.3.1.1.4. Audio visual aids.

5.3.3.1.1.5. Training equipment.

5.3.3.1.1.6. Instructional method.

5.3.3.1.1.7. Instructional guidance.

5.3.3.2. For assistance in writing lesson plans, contact local logistics training flight.

5.3.4. Complete initial academic training before starting practical training. As a minimum, the academic classroom phase of instruction includes:

5.3.4.1. Instruct all personnel in the tasks required to accomplish the unit's CMP during transition to conflict and general conflict.

5.3.4.2. Include safety devices or features according to AFMAN 91-201 and item T.O.s.

5.3.4.3. Hazards of the work environment and special hazards according to tech data.

5.3.4.4. Identification of components according to the item T.O..

5.3.4.5. Inspection of components according to T.O. 11A-1-63 or the specific item T.O. (-63 is preferred).

5.3.4.6. Rapid assembly of components according to T.O. 11A-1-63.

5.3.4.7. Cover publications, safety, AGE SE familiarization, TMDE, special tools, handling equipment, weapons storage and security system requirements.

5.3.5. Practical training starts when academic training is complete. Conduct practical training in a facility or training area dedicated to munitions buildup operations.

5.3.5.1. Use a facility large enough to accommodate required training and associated SE and TMDE.

5.3.5.2. The practical training facility should also have adequate office space and an academic classroom with appropriate heating and cooling.

5.3.6. CMTP instructors administer practical training to each munitions buildup crew member as required.

5.3.6.1. They ensure munitions practical training duplicates operational conditions to the maximum extent possible. Other munitions buildup practical training considerations include:

5.3.6.1.1. Familiarity with munitions serviceability criteria. Do not allow blanket rejection of training munitions during buildup training operations solely because they are inert.

5.3.6.1.2. Familiarity with the operation of all available AGE and SE used during buildup operations, even if not used on a routine basis. Conduct training on items such as the MHU-110/141 trailers and loading in/out of containers during initial training and certification and annually thereafter.

5.3.7. The practical training phase must emphasize set-up for mass production (i.e., using MAC, trailer builds, dunnage builds, etc.) use of power tools and on-the-spot maintenance procedures (such as, use of thread chasers, and so forth). As a minimum, this phase includes:

5.3.7.1. Physical inspection of components according to T.O. 11A-1-63 or specific item T.O. (use -63 when procedures are included).

5.3.7.2. Physical assembly of the complete rounds according to T.O. 11A-1-63 or the specific item T.O. (use -63 when procedures are included).

5.3.7.3. The use of inert components for this training is recommended. If inert components are not available, live munitions may be used provided serviceability is not jeopardized and technical data or higher headquarters does not prohibit use.

5.3.8. CMTP is a hands-on proficiency training program for 2W0X1 personnel, E-7 and below.

5.3.8.1. This program covers all facets of the unit's conventional munitions contingency tasking.

5.3.8.2. It is geared to provide personnel core knowledge and not to fully qualify them in all tasks.

5.3.8.3. All personnel will receive employment/base support plan training on their portion of the plan during their CMTP training.

5.3.9. Munitions Assembly Conveyor (MAC) training is a hands-on proficiency training program for 2W0X1 personnel, E-7 and below. Personnel will be trained to use the MAC to assemble munitions listed on the unit committed munitions list (UCML).

5.3.9.1. Provide MAC training for all personnel upon assignment to munitions assembly duties in support of wartime or contingency tasking.

5.3.9.2. Provide classroom training before participation in practical training.

5.3.9.3. Participation in a MAC operation during a local exercise counts as MAC training.

5.3.10. Initiates and maintains an automated training tracking system for all munitions flight buildup crew personnel.

5.3.10.1. Local course codes will be assigned and will be documented in appropriate training lists.

5.3.10.2. Training will be conducted a minimum of every 12 months.

5.3.10.3. Document buildup crew and crew member certification, decertification and annual recurring training.

5.3.10.3.1. Document initial buildup and qualification training in the individuals CFETP, or the local automated training tracking system.

5.3.10.3.2. Document annual buildup training in the local automated training tracking system.

5.3.11. Certifying, decertifying, and evaluating buildup crew personnel.

5.3.11.1. Certifying crew personnel.

5.3.11.1.1. Certify crew members on the munitions listed in the UCML.

5.3.11.1.2. Crew members can be qualified on more than one UCML item.

5.3.11.1.3. Munitions flight chief/commander determines the number of buildup crews and crew members trained on UCML items.

5.3.11.1.4. Current certification of buildup crew member is valid worldwide. A permanent change of station (PCS) does not require rectification by the gaining unit if the individual is certified for the same type of munitions. Losing units, therefore, provide gaining units with an automated training product.

5.3.11.1.5. Certified buildup crews members will be monitored by the designated CMTP buildup instructor during practical training.

5.3.11.1.5.1. The Munitions flight chief/commander or Training Element NCOIC will monitor buildup crews and crew member during practical training.

5.3.12. Decertifying crew personnel.

5.3.12.1. Decertify and disqualify individuals if they fail to meet qualification requirements outlined in the CFETP, item tech order, 11A-1-63, MAJCOM and flight CMTP requirements.

5.3.12.2. Decertify and disqualify individuals if they fail an evaluation, fail to complete a required evaluation, or fail to accomplish required recurring academic training or go past their proficiency training due date.

5.3.12.2.1. If an individual is TDY, on emergency leave, incapacitated, or involved in an unannounced local or higher headquarters exercise, that person need not be decertified/disqualified if the person training is current during the period of these events.

5.3.12.2.2. Once the individual returns to duty, they must complete the required training within 30 days.

5.3.13. Evaluating crew members.

5.3.13.1. The designated CMTP buildup instructor evaluates each buildup crews and crew members annually.

5.3.13.2. Decertify buildup crew and crew members if they fail to accomplish annual evaluations, unless exempted as specified in the above paragraph.

5.3.13.2.1. Apply the following criteria to initial certification, and annual evaluations.

5.3.13.2.1.1. A safety or reliability error results in a failed rating for the individual.

5.3.13.2.1.2. The lack of technical proficiency results in a failed rating for the individual.

5.3.14. Munitions buildup crews may vary in size and dependent on the operational layout of the task.

Chapter 6

AIR FORCE COMBAT AMMUNITION CENTER (AFCOMAC) ORGANIZATION AND FUNCTIONAL RESPONSIBILITIES

6.1. Mission . AFCOMAC is an Air Force level training center administered by the 9th Munitions Squadron (MUNS), Beale AFB CA.

6.1.1. Two separate courses make up the AFCOMAC program: the Combat Ammunition Planning and Production course (ACC AFCOMAC) and the Senior Officers Orientation course (SOO).

6.1.1.1. The ACC AFCOMAC course provides combat-oriented instruction in CMP development and large-scale conventional ammunition production using mass assembly techniques.

6.1.1.1.1. A two-phased program provides both classroom academic and operational exercise of munitions support concepts and principles based on current Combat Air Force operational plans.

6.1.1.1.2. Phase two of this course is called an IRON FLAG exercise.

6.1.1.1.3. A two-week condensed course for Air National Guard/AF reserve is offered once a year.

6.1.1.2. The SOO course is 2 days and provides combat munitions management orientation to majors (0-4 and civilian equivalent) and above in large scale conventional munitions planning and production operations.

6.1.1.3. A key to AFCOMAC's success is their ability to continuously provide safe working conditions in a combat environment. To enhance safety by providing a higher visibility and separation between students and permanent party during the practical exercise the 9 MUNS personnel are authorized to wear Desert Combat Uniforms during the IRON FLAG practical exercises.

6.1.1.4. Due to the educational nature and isolated environment of the IRON FLAG exercise, lost tools/objects from student CTKs will be reported and coordinated through 9 MUNS/LGW only. No further reporting required.

6.1.1.5. 9 MUNS personnel will not be tasked with TDYs/contingencies without prior approval/ coordination with either HQ USAF/ILMW or ACC/LGW.

6.1.2. In coordination with all MAJCOM munitions staffs, HQ ACC/LGW provides staff oversight of the courses conducted by the 9 MUNS to ensure the program is responsive to current and long range munitions logistics needs.

6.2. Organization. The 9 MUNS is in the 9th Logistics Group, reporting to the Logistics Group Commander.

6.2.1. The squadron is organized with a Commander, commander's support staff, Maintenance Supervision, Curriculum Flight, and Munitions Flight.

6.2.1.1. The Curriculum Flight has three subordinate elements: Planning, Production, and Research and Analysis (R&A).

6.2.1.2. The Munitions Flight's subordinate sections are Materiel, Production and Systems. The unit does not have a flight line delivery function except when students establish this function in conjunction with a class practical exercise. The flight is organized IAW **Chapter 1**.

6.3. Unit Responsibilities.

6.3.1. Propose doctrine and procedures to improve combat munitions production in the USAF. The unit conducts training in all phases of combat munitions operations, from planning through on-site production. This training uses representative conventional stockpile assets, to include new munitions entering the active inventory.

6.3.2. Additional responsibilities include:

6.3.2.1. Evaluate and test new and existing MMHE and validates fielded MMHE at the request of the Center of Excellence.

6.3.2.2. Identify and recommend design improvements to enhance the utility of current inventory and newly designed MMHE and support equipment to assure equipment functions and operates as intended in combat stressed environments.

6.3.2.3. Provide recommendations and user comments to MAJCOM munitions staffs, appropriate ALC, and the Air Force MMHE focal point so proper management action may be taken.

6.3.2.4. Identify and recommend corrections for deficiencies found in MMHE, munitions items, support equipment, and special purpose vehicles.

6.3.2.5. Evaluate and recommend doctrinal and procedural proposals to improve combat ammunition production to MAJCOM board of advisors.

6.3.2.6. Measure, collect, analyze, and distribute times recorded to accomplish munitions tasks. Specific tasks selected to measure during the IRON FLAG exercises are identified by any member of the MAJCOM board of advisors.

6.3.2.7. Schedule and host an annual curriculum review to evaluate content and balance of classroom academics and the practical exercise scenario.

6.3.2.8. Present curriculum review results and course status to the MAJCOM munitions managers conferences, AFMLSG and ALLMAJCOM conference.

6.3.2.9. Provide base level munitions support to the 9th Reconnaissance Wing and other base users. Participation in Wing ORE/ORI Inspections will be limited to that assistance required by munitions supply customers. Additionally AFCOMAC will not participate in other exercises or inspections while classes are in session.

6.4. Specific Functional Area Responsibilities. The following outlines specific responsibilities and procedures.

6.4.1. AFCOMAC Board of Advisors. Made up of the ALLMAJCOM executive committee and evaluates the AFCOMAC training courses during the annual curriculum review to ensure optimum support of Air Force needs.

6.4.1.1. Specify munitions tasks requiring measurement or evaluation during IRON FLAG exercises.

6.4.2. Squadron Commander. Approve certification of individual advisors as recommended by Maintenance Supervision and the Curriculum Flight Chief.

6.4.3. Squadron Maintenance Supervision.

6.4.3.1. Provide technical review and coordination on combat-oriented munitions training exercises and doctrine.

6.4.3.2. Review, evaluate, and propose enhancements to existing production methods/techniques, to include fielded MMHE and munitions support vehicles.

6.4.3.3. Implement the AFCOMAC combat training program and oversees the unit's maintenance and reconstitution effort.

6.4.3.4. Develop and conduct the SOO course.

6.4.3.5. Review and coordinate course critiques with the squadron, group and wing commanders.

6.4.3.6. Provide final outbrief and critique of classroom academics and student exercises, emphasizing both positive and negative aspects of the curriculum and IRON FLAG exercise.

6.4.3.7. Conduct daily critique of the IRON FLAG exercise.

6.4.3.8. Ensure local procedures are written for student access to the stockpile, outlining unit and student responsibilities as to how munitions operations transactions will occur.

6.4.3.9. Ensure requirements and authorizations are adequate for vehicles, support equipment, MMHE and communications equipment needed for the IRON FLAG exercise.

6.4.3.10. Review certification of individual advisors recommended by the Curriculum Flight Chief and forwards to the Commander for final approval.

6.4.3.11. Establish course completion criteria.

6.4.3.12. Ensure a unit Technical Order Distribution Order (TODO) function exists to support unit requirements.

6.5. Curriculum Flight.

6.5.1. Conduct the operational part of the unit's primary combat training mission.

6.5.2. Develop the curriculum and conducts the academic training and practical exercises.

6.5.3. Publish combat munitions doctrine and develops, reviews and updates program materials.

6.5.4. Ensure all course control documents are developed, current, and consistent with MAJCOM curriculum review inputs.

6.5.5. Coordinate the annual munitions forecast to ensure correct munitions and quantities are forecasted consistent with the IRON FLAG scenario.

6.5.6. Manage the student reception program and coordinates base support.

6.5.7. Outline student and equipment assignments, standards for operator care, maintenance and turn-in procedures at the end of the course.

6.5.8. Ensure student course completion certificates and other documentation as required are prepared and signed by the Commander prior to graduation.

6.5.9. Appoint a Custody Account custodian for the inert classroom training munitions used during AMMO 101 instruction.

6.5.10. Ensure all required training munitions for academic use (e.g., classroom, AMMO 101) are forecasted annually to the MASO. When forecasting, the total requirements are stated regardless of on-hand quantities.

6.5.11. Manage the Faculty Development Program (Practicum) to train and certify advisors IAW Community College of the Air Force (CCAF) accreditation requirements.

6.5.12. Manage the CCAF affiliation program. Ensures basic course attendees and advisor CCAF records are updated.

6.5.12.1. Submit the CCAF Affiliate School Annual Report with the approval of Maintenance Supervision and the Commander.

6.5.13. Assign advisor trainers.

6.5.14. Recommend individual advisor certification to maintenance supervision.

6.5.15. Review and coordinate academic/exercise critiques through maintenance supervision and the squadron commander.

6.5.16. Coordinate student practical exercise vehicle and equipment requirements with the Munitions Flight and the unit Vehicle Control Noncommissioned Officer (VCNCO).

6.5.17. In concert with other advisors, critique IRON FLAG operations daily and attends the daily debrief.

6.5.18. Is the USAF OPR for **Chapter 9** of this instruction.

6.5.19. Establish student quotas for each MAJCOM by manning authorizations and distribute allocations no later than 1 June of each year. CMSgt and SMSgt slots are established as directed by the board of advisors.

6.5.19.1. Load quotas into the Air Force Training Management System (AFTMS).

6.5.20. Maintain a student database on all course graduates.

6.5.21. Develop practical exercise advisor schedules.

6.5.22. Supervise and analyze student pad operations.

6.5.22.1. Maintain surveillance over practical exercise activities.

6.5.22.2. Provide on-the-spot assistance as needed.

6.5.22.3. Terminate all hazardous/unsafe operations immediately and reports problems noted to exercise supervision by fastest means possible.

6.6. The Planning Element.

6.6.1. Develop academic outlines, lesson plans, handouts, conventional munitions employment planning guides, instructional booklets/pamphlets, attendee rosters, pre/end of course tests and other materials as needed to support classroom academic requirements.

6.6.2. Develop and implement the unit's Faculty Development Program. Trains and monitors performance of advisors.

6.6.3. Plan and develop materials and presentations for curriculum reviews.

6.6.4. Develop and provide attendee quotas to MAJCOMs and monitors filling of assigned quotas for each class.

6.6.5. Coordinate with the Munitions Flight to ensure accuracy and consistency of exercise materials and presentations.

6.6.6. Conduct classroom academic instruction.

6.6.7. Coordinate and update academic materials to reflect current changes in the 2W0X1 career field to include lessons learned.

6.6.8. Maintain audiovisual equipment and audiovisual library for use in classroom academics.

6.6.9. Assign students to seminars.

6.6.10. In concert with the Production Element, develop classroom and advisor schedules.

6.6.11. Maintain reference materials to support course content.

6.6.12. Maintain the flight's technical order library and ensures sufficient copies of applicable munitions technical data will be on-hand for academic and exercise needs.

6.6.13. Update advisor CCAF records for Advisor Teaching Practicum, course code 785ACC 3S200-036.

6.6.14. Coordinate student access to the MSA with the Munitions Flight and the Unit Security Manager.

6.6.15. Manage the class critique program.

6.6.16. Maintain the graduate database and provides graduate report to all MAJCOMs twice a year.

6.6.17. Develop and disseminate the annual AFCOMAC Lessons Learned.

6.6.18. Update AFTMS & student CCAF records for basic course graduates.

6.6.19. Conduct the class post-academic meeting and publishes meeting minutes.

6.7. The Production Element.

6.7.1. Develop student operational instructions (OIs), additional instructions, concept of operations (CONOPS), O-plan, ATOs, UCML and WCDO for unit and student use.

6.7.2. Develop practical exercise scenarios that replicate representative production rates and associated procedures consistent with planned combat operations and as requested by the board of advisors.

6.7.3. Develop and maintain the OPLAN for both classroom instruction and practical exercise use.

6.7.4. Validate munitions requirements and sortie rates with the board of advisors during the curriculum review.

6.7.5. Ensure student operations are consistent with program objectives.

6.7.6. Assist the Planning Element in the development of course materials and in classroom academic oversight as needed.

6.7.7. Maintain student/class production database and provides updated information to Maintenance Supervision, unit commander and board of advisors.

6.7.8. Update the post exercise debrief slides/program.

6.7.9. Maintain practical exercise supplies and student desktop/laptop computers.

6.7.10. Maintain the Curriculum Flight's CTKs used for AMMO 101 training.

6.7.11. Maintain class folders to archive each classes performance.

6.7.12. Update class fuze incident database.

6.7.13. Assist the Planning Element, develop practical exercise advisor schedules.

6.7.14. Maintain student T.O. account.

6.7.15. Maintain advisor practical exercise, advisor super and battle staff books.

6.7.16. Conduct the post-practical exercise meeting.

6.7.16.1. Publish meeting minutes with action items as needed.

6.7.16.2. Monitor the completion of action items.

6.7.17. Update the following briefings:

6.7.17.1. Introduction.

6.7.17.2. Situation.

6.7.17.3. CMP.

6.7.17.4. AGE.

6.7.18. Maintain inert training munitions and instructional aids.

6.7.18.1. Inert munitions are exempt from periodic inspections due to frequency of use and inspection.

6.7.18.2. Visually inspect inert munitions prior to use IAW T.O. 11A-1-63. Document discrepancies on automated record or AFTO Form 244, **Industrial/Support Equipment Record**.

6.8. Research and Analysis Element.

6.8.1. Focal point for all AFTO Forms 22 pertaining to T.O.s 11-1-38 and 11A-1-63. Provide coordinated unit response to HQ ACC and other MAJCOMs as required.

6.8.2. Develop and maintain format and content for the IRON FLAG advisor daily briefing sheets.

6.8.3. Maintain IRON FLAG exercise trend analysis database using inputs derived from advisor daily briefing sheets.

6.8.4. Maintain IRON FLAG exercise production rates and MAC set-up data file.

6.8.5. Maintain IRON FLAG test bed analysis program for current and new/improved munitions, MMHE and computer based programs. Interface with MMHE Focal Point on related issues, including LMME.

6.8.6. Research and introduce new computer hardware media and software applications.

6.8.7. Develop, edit, and publish the annual AFCOMAC News & Lessons Learned AMMO GRAM.

6.8.8. Research and acquire reference material/visual aids applicable to course format and content from field level points of contact.

6.8.9. Research and introduce inter/intra service aircraft and conventional munitions tasking based on curriculum review recommendations.

6.8.10. Validate munitions and equipment requirements.

6.8.11. Plan and develop materials and presentations for annual Curriculum Review.

6.9. The Munitions Flight.

6.9.1. Perform the storage, inspection, operations (accountability), maintenance, reconstitution, equipment maintenance and base munitions support functions of the unit. It closely resembles a normal Munitions Flight in the objective wing, except on a day-to-day basis, it does not have a flight line delivery function. In addition to the Munitions Flight Chief duties described in **Chapter 1**, also:

6.9.1.1. Direct the flight's maintenance and reconstitution effort.

6.9.1.2. Ensure vehicle, AGE, MMHE, and MICAP reportable equipment status changes are reported to Maintenance Supervision.

6.9.1.3. Advise maintenance supervision of job delays, significant difficulties and vehicle/equipment/personnel shortfalls that would affect IRON FLAG support.

6.9.1.4. Ensure all tools/equipment required for student needs are serviceable and available.

6.9.1.5. Ensure the flight's training program is adequate for reconstitution requirements.

6.9.1.6. Ensure procedures are developed for the issue, storage, inspection, maintenance, reconstitution and delivery of munitions to meet exercise needs.

6.9.2. Materiel Section. Responsible for the surveillance and accountability of the munitions stockpile, and performing storage responsibilities for all base support munitions. All personnel become augmentees to the Munitions Maintenance Element during IRON FLAG disassembly operations.

6.9.2.1. Munitions Inspection.

6.9.2.1.1. Student munitions will be inspected with the following in mind:

6.9.2.1.1.1. Munitions are carried in condition code "B" in CAS-B and condition code "A" in CAS-D. They are intended for 'training use only'.

6.9.2.1.1.2. Munitions are not barrier bagged, no desiccant is used and hermetically sealed containers are not inspected to ensure seals are adequate. For that reason, any items requiring such packs must be considered to have expired shelf/service life.

6.9.2.1.1.3. Munitions are not considered for operational use.

6.9.2.1.1.4. Any munitions assets, which are used strictly for the training of AFCOMAC students, are exempt from periodic and storage monitoring inspections due to the frequency of inspections conducted during and after each class:

6.9.2.1.1.5. Munitions are not redesicated, properly sealed, or documented for service life purposes.

6.9.2.1.2. Tag, pack and mark munitions.

6.9.2.1.2.1. For student stockpile assets, condition code tags are used only on unserviceable munitions (i.e., condition code "B" tags are not used; condition code "E", "G", "H", and "J" tags are used).

6.9.2.1.2.2. M-9 delay elements are color coded for ease of repacking.

6.9.2.1.3. To ensure a safe training environment, student munitions are assembled, when possible, with dummy boosters to interrupt the explosive train. Therefore, 9 MUNS personnel repackage fuzes such as FMU-81s, which come with live FZU-2 boosters with dummy boosters. CAS-D is annotated to reflect the installed dummy boosters and the outer container is marked "Dummy Boosters Installed".

6.9.2.2. Munitions Storage.

6.9.2.2.1. Custody account placards are not required on the student stockpile.

6.9.2.2.2. Courtesy storage of munitions for outside agencies, e.g., Army, Navy, Marines, ROTC, etc., is on a space available basis. Such storage must not degrade the unit's capability to store AFCOMAC munitions.

6.9.2.3. Munitions Operations.

6.9.2.3.1. Student munitions assets are inventoried after each practical exercise, quarterly custodial inventories are still required.

6.9.3. Production Section. This section is responsible for maintaining serviceable munitions, equipment and vehicles to support all aspects of AFCOMAC.

6.9.3.1. Maintenance Element.

6.9.3.1.1. Disassemble, repack, repair, and modify munitions and performs limited inspections (safety, form, fit, and function) on assets used to support AFCOMAC exercises. Manages Nancy and Kilo IRON FLAG exercise Pads.

6.9.3.1.2. Maintain AFCOMAC student stockpile Custody Account and appoints primary and alternate munitions custodians.

6.9.3.1.3. Complete pad set-up prior to IRON FLAG exercises. This includes, but is not limited to placement of appropriate residue containers, preparations of repack containers/pallets, cut required quantity of steel banding, preparations of break facilities.

6.9.3.2. Support Element.

6.9.3.2.1. Inspect, maintain, and service assigned non-powered MMHE. This includes all AFCOMAC assigned student support equipment, munitions trailers, MACs, munitions handling slings, bomb lift booms and barrel handling adapters. This does not include any/all MMHE assigned to other sections.

6.9.3.2.2. Provide operator maintenance and serviceability inspections for all student vehicles and AGE.

6.9.3.2.3. Inspect, maintain, and prepare student and element CTKs.

6.9.3.2.4. Inspect, maintain, and pre-position student mobility packages, including production of the student mobility list.

6.9.3.2.5. Augment Munitions Maintenance with disassembly operations during IRON FLAG practical exercises.

6.9.3.2.6. Maintain at least one spare tire, tube and wheel assembly per trailer for IRON FLAG use in order to provide a remove and replace capability for flat tires. Changing flat tires on munitions loaded trailers is considered minor maintenance and is authorized.

6.9.4. Systems Section. Responsible for providing all Flight controlling functions and CAS-B operations. CAS-B is used to the maximum extent possible. All personnel become augmentees to the Maintenance Element during the IRON FLAG disassembly operations.

6.9.4.1. Munitions Control.

6.9.4.1.1. Maintain land mobile radio account.

6.9.4.1.2. Appoint a VCNCO for unit vehicle management.

6.9.4.1.3. Enforce the student key control procedures as directed by 9 MUNS OI 31-1.

6.9.4.1.4. Create the entry authorization listing for permanently assigned unit personnel. Submits list to unit commander for approval.

6.9.4.1.5. Daily reconciliation of AFI 36-2217 expenditures is not required.

6.9.4.1.6. Use MC2000 to monitor all items in **Chapter 5** except:

6.9.4.1.6.1. Assembled, ready munitions and missiles.

6.9.4.1.6.2. Aircraft or munitions generation status.

6.9.4.1.6.3. Missiles or PGMs built-up or captive.

6.9.4.1.6.4. Maintains three (3) dedicated munitions nets.

6.9.4.1.6.5. Is not required to attend any maintenance operations scheduling meetings.

6.9.4.2. CAS-B Element.

6.9.4.2.1. Due to limited rank structure, Systems Security Officer will be in the grade of Technical Sergeant of above. System Administrator will be in the grade of SSgt or above.

6.9.4.2.2. Element is manned with at least two qualified CAS individuals.

6.9.4.2.3. Maintain the Flight STU-III capabilities.

Chapter 7

GENERAL REQUIREMENTS

7.1. Locally Manufactured Munitions Equipment (LMME). Manufacture of procurable items is restricted to those approved for use. LMME encompasses all equipment which handles, transports, supports munitions (except storage shelves) or gauges, measures, tests, assembles, or verifies systems, subsystems, components, or item integrity. It does not include simple cable adapters or plugs constructed as troubleshooting aids to replace pin to pin jumper wires specified in T.O.s.

7.1.1. The LMME pamphlet will be consulted prior to units developing their own unique LMME.

7.1.1.1. Approval is not required for those LMME items adopted from the MMHE Focal Point Pamphlet, provided no changes are made to the LMME and the pamphlet containing that LMME is retained.

7.1.1.2. Approval also is not required for LMME listed in item technical orders provided no changes are made.

7.1.2. New LMME must be submitted and reviewed by the MAJCOM munitions and weapons safety staff prior to use IAW AFI 91-205 *Nonnuclear Munitions Safety Board.*

7.1.2.1. For items that the MAJCOM staff deems necessary, they will send LMME requests to the MMHE focal point.

7.1.2.1.1. The focal point will perform an engineering design, structural and safety analysis of the proposed LMME to ensure it meets acceptable levels of design and performance safety.

7.1.2.1.1.1. The results of the analysis will be provided to the appropriate MAJCOM with recommendation for approval, non-approval or redesign. Based upon the operational need and in coordination with the MAJCOM, the MMHE Focal Point will perform the redesign and any required testing. Only redesigned equipment will be considered for inclusion in the LMME pamphlet.

7.1.2.2. Approval documentation, maintenance and inspection requirements IAW T.O. 00-20-7 and drawings/specifications will be maintained for the life of the item.

7.1.2.3. MAJCOM munitions staff will submit new items to the USAF MMHE Focal Point for possible inclusion into the LMME pamphlet.

7.1.3. LMME such as Y-stands, bomb dummy unit (BDU) modules, missile racks, etc. used to physically support or transport munitions items will have AFTO Forms 244, **Industrial/Support Equipment** or automated form attached. At a minimum, annual visual inspections will be performed to verify integrity of LMME.

7.2. Conventional Training Items. Serviceable, functional training items are necessary to provide quality training for munitions personnel. Sortie surge packages, load crew trainers, and Integrated Combat Turn (ICT) munitions are required and utilized by munitions and weapons personnel to train on munitions outlined on the UCML.

7.2.1. Custodians forecast for the minimum quantities required to provide realistic munitions production and ICT training.

7.2.2. Flight supervision, user (custodian) and maintenance personnel will establish a process to ensure in-use inert and dummy training munitions are maintained and functional. The process will be documented in an operating/written instruction.

7.3. Built-up (Ready) Munitions. All built-up (ready) munitions (to include AURs out of their containers) will be visually inspected for damage that would preclude use or functioning of a component and check the service life every 180 days. Document the inspection results.

7.3.1. General purpose bombs assembled for use will have service life start date (if applicable) and all marking requirements in T.O. 11A-1-63 recorded with indelible marker on the nose of the bomb.

7.3.1.1. All assembled items will be assigned an assembly lot number which will also be recorded along with the above requirements.

7.3.1.2. For exercises, these markings may be placed on tape.

7.3.1.3. For munitions used/assembled during the Air Force Combat Ammunition Center's (AFCOMAC) IRON FLAG practical exercise, the service life start date begins each time the students remove assets from their container. These assets are condition coded for training use only and accumulative service life is not tracked.

7.3.2. The assembly lot number and the date the complete round was assembled will be recorded on the assembly worksheet. Assembly worksheets will be retained until the item is either expended or disassembled and returned to storage.

7.3.3. Combat Munitions Reliability Inspection (CMRI). This inspection focuses on the form, fit and function of an assembled complete round using the serviceability criteria in T.O. 11A-1-63, **Chapter 3**. This inspection requirement does not apply to AGM, AIR missiles, GBU-15 and aircrew training munitions.

7.3.3.1. Twelve months after assembly, 10 percent of the total number of each complete round type will be disassembled and the components inspected. Continue on a monthly basis to ensure 100 percent inspection of all components over a year period. Significant discrepancies discovered will be reported to MAJCOM munitions staff.

7.3.3.2. After completion of the CMRI and reassembly, "CMRI and the date of the inspection (month/year)" will be stenciled on the side of the bomb body, centered (i.e., CMRI 1/98).

7.4. AF Owned Intermodal (ISO, MILVAN, etc) Containers. These containers are used for the shipment and storage of conventional munitions. When used for storage, munitions inspection cycles will be extended to inside storage intervals as defined by specific item technical data. The 363 TTRS and 9 MUNS (AFCOMAC) are exempt from the requirements in this paragraph. Additionally, these procedures do not apply to Intermodal containers owned by other agencies.

7.4.1. Approval from the MAJCOM munitions staff is required before a container can be used for anything other than its intended purpose.

7.4.2. Units will maintain containers in serviceable condition for munitions redistribution or storage at all times. The Convention for Safe Containers (CSC) certification on all Air Force owned containers must be kept current.

7.4.2.1. Containers will not be used to store equipment or materials (e.g.: liquids, acids, batteries, etc.) that would render them non-certifiable under the CSC.

7.4.2.2. Holes will not be made in any part of a container. Blocking and bracing must be installed in a manner that prevents the need to insert nails or screws into the floor or walls of containers.

7.4.3. Containers will be placed on four-inch dunnage when stored on unimproved surfaces to prevent rust and water damage. Empty containers will not be stacked more than three high. When stacked, locking pins will be inserted between containers.

7.4.4. CSC Inspection: Performed by certified CSC inspectors IAW MIL-HDBK-138A, *Container Inspection Handbook for Commercial and Military Intermodal Containers*. For containers that pass inspection, apply a new DD Form 2282, **Convention for Safe Containers (CSC)**. If these forms are not available, stamp the next inspection due date on the CSC/Consolidated data plate, or stencil the new due date adjacent to the data plate.

7.4.4.1. Document the inspection using DA Form 2404, **Equipment Inspection and Maintenance Worksheet**. Send the original copy of the CSC inspection (5-year, 30-month, and after-repair) form to the MAJCOM Munitions Staff and maintain a file copy for 1 year.

7.4.4.2. CSC inspector training requirements will be identified and submitted to MAJCOMs. Units should additionally budget for TDY training requirements in case of TDY-to-School bogey shortfall.

7.4.5. Units will budget annually for container maintenance costs. Maintenance will be limited to minor repair and preventive measures, such as re-attaching placard holders and data plates and lubricating seals and locking mechanisms.

7.4.6. Account for MAJCOM owned containers utilizing CAS, using NSN 8140-01-296-7241 and appropriate condition code (CC). Containers will be entered in CAS by total quantity or individual serial number.

7.4.6.1. If total quantity is entered, a local method of tracking S/Ns and inspection due dates must be developed.

7.4.7. Containers will only be placed in CC A, E, F, G or H.

7.4.7.1. Containers in CC H will be reported to MAJCOM Munitions Staff by message.

7.4.7.2. Unserviceable repairable containers will be assigned AWM/AWP work orders through CAS-B, parts ordered as necessary, and action taken to return them to serviceable condition.

7.4.8. Container shipments:

7.4.8.1. Shipping documents will be produced for each container to be shipped IAW **Chapter 27**and **Chapter 29**.

7.4.8.2. Prior-to-use inspections will be performed before loading munitions for shipment and will consist of a visual interior and exterior examination for obvious defects.

7.4.8.3. Documentation of this inspection will be acknowledged by signing the DD Form 1348-1, **DoD Single Line Item Release/Receipt Document**, "Inspected By and Date" block.

7.4.8.4. Shipping documents will be attached to the inside of a door on each container.

7.4.8.5. Units with bar-code capability will place bar-codes quantity on exterior of container with labels coded to show NSN, lot, condition code for each item inside container. Bar code labels will be placed on the door near the consolidated data plate.

7.4.8.6. Ensure all applicable DOT markings are properly affixed.

7.5. General Element Procedures. The following are common standards that all element supervisors will enforce.

7.5.1. Units using electric/pneumatic/hydraulic powered tools such as saws, nail guns, heat sealers, banding equipment, etc., will ensure that written instructions are developed and published to include proper use, maintenance, and safety as outlined in manufacturer's instructions or owner's manual.

7.5.1.1. Follow procedures in T.O. 00-20-7 for Inspection of Equipment and documentation/form procedures.

7.5.1.2. Individuals will be trained and documented on AF Form 797, **JQS Continuation Sheet**.

7.5.2. AFTO Form 350, **Item Repairable Processing Tag**, is optional except as indicated below:

7.5.2.1. Items needing repair outside the Munitions Flight require an AFTO Form 350.

7.5.2.2. Items failing Storage Monitoring Inspection require either an AFTO Form 350 or the appropriate DD Form 1500-series tag. Items do not have to be segregated from other stocks for failing SMIs.

7.5.3. DD Form 1500-series tags are mandatory for other than CC/A assets and are completed according to T.O. 11A-1-10. Additionally, items are tagged as follows:

7.5.3.1. One tag is attached to each crate, box, metal container, or banded pallet, each loose item or each item on an unbanded pallet. For items that are block stacked, i.e., 20MM ammunition, MJU-7 flares, and as long as normal lot-to-lot segregation is maintained, only one tag may be used per stack.

7.5.4. Maintain emergency eyewash and showers as per Air Force Occupational Safety and Health Standard (AFOSH STD) 127-32, *Emergency Showers and Eyewash Units.*

7.5.5. Store flammable and combustible liquids according to AFOSH STD 127-43, *Flammable and Combustible Liquids* and AFMAN 91-201.

7.5.6. Wear, inspect, and store respirators as required in AFOSH STD 48-1, *Respiratory Protection Program*.

7.5.7. Store oily rags and other waste in proper containers, and empty the containers daily per AFOSH STD 91-66, *General Industrial Operations.*

7.5.8. Perform and document fire extinguisher inspections required in AFOSH STD 127-56, *Fire Protection and Prevention.*

7.5.9. Use cleaning fluids in well ventilated rooms as outlined in AFOSH STD 161-2, *Industrial Ventilation.*

7.5.10. Maintain shelf life items (lubricants, paint, etc.) as per T.O. 00-20K-1, *Inspection and Control of USAF Shelf-Life Equipment.*

7.5.11. Vehicle pintle hooks and attaching hardware meets requirements of T.O. 36-1-121, *Standardization of Lunettes and Pintles (Towing Attachments)*.

7.5.12. Maintain a copy of all applicable Material Safety Data Sheets (MSDS) for all hazardous consumables maintained. The MSDSs will be located to ensure personnel using the material have access to them. For instance, located on the paint locker.

7.5.13. Ensure munitions are not reused after they fail to function unless directed by the item T.O.. Every attempt will be made to determine the probable cause of the failure and recommend corrective action.

7.5.13.1. Ensure all incidents of improper functioning are reported by message to the MAJCOM and the appropriate equipment specialist IAW T.O. 00-35D-54.

7.5.13.2. Common cannot duplicate (CND) failures will be coordinated with the weapons flights to determine probable cause and corrective action to munitions assets or aircraft armament systems.

Chapter 8

CONVENTIONAL MUNITIONS PRODUCT ASSURANCE

8.1. Introduction. Product assurance concerns exist from the inception of a munitions item until it is properly disposed. With this in mind, personnel at all echelons are stakeholders in the process. This entails proper design, life-cycle testing, the inspection process and reporting of discrepancies. Without munitions product assurance, we would not be providing our customers with the highest possible quality assets as well as not ensuring our national resources are being utilized to their highest potential. This chapter contains guidance essential for establishing the foundation for munitions product assurance.

8.1.1. All MAJCOMs that use non-nuclear munitions items have Product Assurance duties:

8.1.1.1. Ensure subordinate organizations are using PQDR, AFTO Forms 22 or alternative electronic means to identify munitions reliability, maintainability, or deficiency concerns to the responsible Air Force Materiel Command (AFMC) Air Logistics Center (ALC).

8.1.1.2. Screen safety and accident investigation reports and ensures any munitions issues are referred to the appropriate Logistics Center.

8.1.1.3. Ensure procedures to monitor and survey condition of munitions in storage and service are complied with.

8.1.1.4. Evaluate skills and personnel who conduct product assurance and identify training requirements to Air Education and Training Command (AETC) during the annual UT&W. Ensure subordinate Commands support this requirement.

8.1.1.5. Review reliability and maintainability reports from Logistics Centers and determine minimum acceptable performance criteria below which munitions have no identifiable combat utility. Coordinate with HQ USAF and the responsible ALC to remove from service and inventory, or restrict to training use only, those items that fall below established combat performance criteria.

8.1.1.6. If charged with developing mission need statements, ensure to indicate assets must be made available for life-cycle testing. Also, incorporate design and inspection desires to ensure asset reliability while minimizing manpower impacts.

8.1.1.7. Participate in forums and working groups to resolve product assurance problems.

8.1.1.8. Every five years conduct unit level surveillance visits to determine the effectiveness of their munitions product assurance program. Furnish a detailed written report of the surveillance visit to the unit. The report will identify all deficiencies, their main causes, recommended changes, training requirements, and personnel contacted during the visit.

8.1.2. AFMC has the primary responsibility for munitions product assurance to include:

8.1.2.1. Ensure resource allocation to support product assurance commensurate with the importance of high quality and reliable munitions.

8.1.2.2. Investigate munitions deficiencies reported by using commands. Report reliability and maintainability results from investigations and surveillance testing to using commands. The ALCs must establish tracking systems to monitor trends and analyze data. The ALCs must provide MAJCOMs and other customers with reports to provide results of the data analysis.

8.1.2.3. Ensure surveillance is maintained over Air Force munitions stored by other Services. This includes ensuring the storing Service is properly using the funds allocated to store, inspect and maintain munitions.

8.1.2.4. Establish, maintain and make available technical information for inspecting, testing, storing, maintaining, handling, transporting, packaging, preserving, disposing, reconditioning, modifying, renovating and containing non-nuclear munitions.

8.1.2.5. Other Services' Sites for Storing Air Force Munitions Assets Surveillance Visits. Conduct surveillance visits to other Services' storage sites containing Air Force assets every 2 years to determine the effectiveness of their munitions product assurance program. At the end of surveillance visit, conduct an exit briefing with the other Services' representatives to discuss noted deficiencies. Thoroughly discuss all deficiencies and resolved differences of opinion. Furnish a detailed written report of the surveillance visit to the agencies responsible for storage site. Report will identify all deficiencies, their main causes, recommended changes, training requirements and personnel contacted during the visit. Furnish the MAJCOMs and Air Staff a written report on the status of the Air Force stockpile stored at other Services' sites.

8.1.3. All Munitions Squadrons, Flights, Elements have Product Assurance duties:

8.1.3.1. Complete munitions inspections as required by technical orders and special instructions.

8.1.3.2. Ensure that munitions deficiencies or discrepancies detected through inspections or use are promptly reported through the Combat Ammunition System (CAS), and/or through PQDRs, safety reports and AFTO Forms 22.

8.1.3.3. Care of Munitions in Storage Program (COMISP). The Munitions Flight will establish a COMISP to ensure munitions in storage are maintained in ready-for-use conditions or to protect unserviceable munitions from uneconomic deterioration. The COMISP program shall include: a quality control program for inspection and test; a system for reporting and recording of quality control data; provisions for entry of the true condition of materiel into the Combat Ammunition System (Base or Deployable); a system to assure corrective actions are accomplished on deficiencies uncovered during inspections; and a system to track warranty items to include reporting requirements for deficient items.

8.2. Product Design

8.2.1. Design Considerations.

8.2.1.1. Product assurance for non-nuclear munitions must begin during the conceptual phase of the acquisition process and be continued throughout the life-cycle of the item.

8.2.1.2. Ensure consideration is given to the operating environment faced by munitions. Munitions are stockpiled for extended periods, withdrawn, and cycled from a ready state back to storage numerous times before finally being employed or disposed of. In the case of some munitions, electrical continuity tests or power-on operations may be a part of this cycling.

8.2.1.3. Munitions require a dual consideration of reliability. Munitions must perform their mission on demand (performance) and must not function prematurely, inadvertently, or in some other unexpected manner (safety). Both aspects of reliability must be monitored and stringently controlled to ensure combat readiness is maintained and unintended personnel injury or property damage is prevented.

8.2.1.4. During design, ensure the item can be readily manufactured and maintenance personnel will have access to components requiring periodic inspection.

8.2.1.5. Ensure throughout the design process that adequate attention is given to packaging, handling, and transporting requirements for munitions to include explosive hazard classification for transportation and storage as well as the operational (ground handling/storage and flying) environment. Design criteria must also include environmental protection issues for consideration during daily use and for disposal purposes.

8.2.1.6. Ensure throughout the munitions item life-cycle that accurate configuration control of the item engineering design is maintained. Changing NSNs of an item after modifications or Time Compliance Technical Order (TCTO) changes promotes configuration control.

8.2.1.7. Ensure during design that consideration is given to the future need to demil/dispose of the item and select where possible materials that makes this process easier. Lean towards reclamation potential as much as possible.

8.2.2. Service Life. Establish initial service life and shelf life dates for the munitions based on design, manufacturing processes, materials and performance testing.

8.3. Product Assurance Procedures

8.3.1. Product Assurance Reporting.

8.3.1.1. Munitions-Using Organizations.

8.3.1.1.1. Formally report any/all conditions that could lead to injury or prevent a munitions item from functioning properly.

8.3.1.1.2. Report technical data errors, incorrect or unclear procedures, munitions item discrepancies, failures, incidents or accidents.

8.3.1.1.3. Provide the report to the parent MAJCOM and the responsible AFMC Air Logistics Center.

8.3.1.1.4. Use AFTO Forms 22, PQDR (**SF Form 368,Product Quality Deficiency Report,** Core Automated Management System (CAMS) Sarah Lite, etc.) or appropriate electronic means to identify and report munitions problems. Report discrepancies on any item in service regardless of the date of manufacture.

8.3.1.2. Munitions-Managing Organizations.

8.3.1.2.1. Report to munitions-using organizations by message anytime munitions items are placed into a suspended or restricted status.

8.3.1.2.2. Report back to the submitting organization within 72 hours upon receipt of a PQDR. Acknowledge receipt of PQDR and provide any additional information regarding resolution of problem.

8.3.1.2.3. If involved in the investigation of an accident or incident involving munitions, provide an initial assessment to other potential users of the asset.

8.3.2. Inspections.

8.3.2.1. Munitions-Using Organizations.

8.3.2.1.1. Conduct scheduled, periodic, receiving, shipping, storage monitoring, returned munitions, pre-issue, and special inspections as required.

8.3.2.1.2. Report discrepancies and non-conforming munitions as directed.

8.3.2.2. Munitions-Managing Organizations.

8.3.2.2.1. Establish and coordinate munitions inspection frequencies and procedures with MAJCOMs. Base the decisions on trend analysis for a given asset in a given environment.

8.3.2.2.2. Issue special and one-time inspection guidance and procedures as required.

8.3.2.2.3. Ensure product assurance responsibilities are met for munitions items managed by other services.

8.3.2.3. Mishap Inspections.

8.3.2.3.1. Ogden Air Logistics Center has established a "Munitions Rapid Response Team" of personnel knowledgeable in all aspects of munitions to respond to munitions incidents. This team is available within 24-48 hours to support any MAJCOM or base in determining the cause(s) of a munitions failure or accident. Call DSN 777-5156/5053/5055, 4865 or the Hill AFB Command Post at 777-3007, for assistance.

8.3.3. Testing. Most munitions are "one-shot" devices. Reliability for "one-shot" devices with time-dependent failure characteristics cannot be measured absolutely. Therefore, inferences must be made on reliability and useful life based on observing the performance of representative samples.

8.3.3.1. Munitions-Managing Organizations.

8.3.3.1.1. Ensure procurement of munitions items includes sufficient quantities for testing throughout the forecast life-cycle of the item. Also ensure procurement includes sufficient assets for explosives safety and disposal testing.

8.3.3.1.2. Ensure munitions test information is used to periodically update munitions performance and reliability.

8.3.3.2. Product Development Testing. Good documentation of item performance during product development testing is essential to long-term Product Assurance.

8.3.3.2.1. Ensure Explosive Hazard Classification test data and detailed performance data are incorporated in munitions surveillance plans.

8.3.3.2.2. Ensure Lot Acceptance Test (LAT) data is captured and incorporated in surveillance plans.

8.3.3.3. Surveillance Testing. Surveillance testing is intended to detect and measure the gradual changes in munitions before those changes cause the item and/or system to fail. Predicting future changes based on current measurements allows shelf life and service determinations. While operational tests and training events demonstrate whether a munitions system functioned or not, little useful surveillance information is usually obtained.

8.3.3.3.1. Perform failure analysis testing if necessary to isolate causes of munitions failures and to determine if problem is widespread.

8.3.3.3.2. Perform periodic testing of munitions to assess the impacts of aging on item reliability and performance. Testing should not only include those explosive components which

suffer from chemical deterioration but any component of the munitions' system which is critical to system operation and safety, (e.g., guidance units, control fins, wiring, software, or inert actuators, etc.).

8.3.3.3.3. Match test frequency to predicted item deterioration or to impact of item failure. Make sure you take into consideration munitions accumulating a high quantity of high flight hours when determining what munitions to test.

8.3.4. Reliability Assessment and Product Deficiencies.

8.3.4.1. Product Assurance Standards.

8.3.4.1.1. Munitions-using and managing organizations establish performance and reliability standards during item development. Document the performance standards in Mission Needs Statements (MNS) and Operational Requirements Documents (ORD) as well as surveillance test plans.

8.3.4.1.2. If determined appropriate, negotiate product warranties and guarantees with the item developer. Manage the warranted item to insure warranty conditions are not violated and conduct surveillance testing of the item prior to warranty expiration to insure it meets warranted standards.

8.3.4.2. Product Assessment.

8.3.4.2.1. Munitions-management organizations gather munitions performance information from all available sources in reaching a product reliability assessment.

8.3.4.2.2. Compile information from munitions inspections conducted by both munitions-using and managing organizations.

8.3.4.2.3. Ensure performance reports are received from operational evaluations of combat weapon systems. Perform a solid review of these reports!

8.3.4.2.4. Product Quality Deficiency Reports provide useful information about the failure modes of an item and organizations are required to use the PQDR process to identify munitions failures and discrepancies.

8.3.4.2.5. Surveillance testing will continue to provide the bulk of product assurance information and a test program must be conducted periodically throughout an item's service life.

8.3.4.3. Product Analysis.

8.3.4.3.1. Use actual test data when available for reliability determination and service life prediction.

8.3.4.3.2. Long Range Services Life Analysis (LRSLA) is a structural failure prediction model, which assists in establishing the service life of missile propulsion systems. Other computer models are coming into use to assist in determining reliability and service life of other conventional munitions items and their use is strongly encouraged.

8.3.4.3.3. If product performance has changed, (e.g., range, accuracy, lethality, etc.) ensure using commands and the Joint Munitions Effectiveness Manuals Group (JMEM) are made aware of the current level of performance.

8.3.4.4. Product Deficiency. When munitions are identified as deficient through inspection, testing, failure or any other means, a number of actions become possible.

8.3.4.4.1. Item(s), serial number(s), or lot number(s) restriction or suspension.

8.3.4.4.1.1. Restriction or suspension of a munitions item is usually an interim action until one of the four actions listed in paragraphs 3.4.4.2 - 3.4.4.5 are taken.

8.3.4.4.1.2. Restrict an item when it does not conform to all specifications but is still serviceable for certain applications.

8.3.4.4.1.3. Suspend an item when its true condition is not known, it is determined unserviceable, or its service life has expired. Additional information on condition codes for munitions is contained in T.O. 11A-1-10.

8.3.4.4.2. Warranty action.

8.3.4.4.2.1. If a deficient item was procured with a manufacturer's warranty, invoke the warranty.

8.3.4.4.2.2. Ensure appropriate program management personnel are aware of warranty conditions and expiration dates.

8.3.4.4.3. Accept deficiency - adjust service life. Occasionally the munitions-using and managing organizations will reach agreement that a munitions deficiency is too costly to correct, the asset is too mission-critical to restrict, or has insufficient impact on system performance to warrant correction.

8.3.4.4.3.1. If appropriate, adjust the service life of the item or the use restriction code.

8.3.4.4.3.2. If the deficiency changes the performance of a system, ensure all appropriate technical manuals are updated with the correct information.

8.3.4.4.4. Initiate product improvement program. The decision to correct an item deficiency is jointly reached by the using and managing organizations.

8.3.4.4.5. Dispose or retire an item. Munitions items that have reached the end of their service life, as well as those of questionable reliability, must be retired from the inventory.

8.4. Additional Product Assurance Responsibilities.

8.4.1. Lead Command. All munitions items have a designated lead command which will:

8.4.1.1. Ensure that munitions concerns are closely worked with the managing organization until resolution.

8.4.1.2. Identify munitions items, which are excess or obsolete to the appropriate Air Logistics Center so disposition actions can be initiated.

8.4.2. Product Improvement Working Groups (PIWG) are usually comprised of field, MAJCOM and Air Logistic Center personnel. Points-of-Contact and/or action officers are designated at MAJCOM and Air Logistic Centers. PIWGs typically address specific munitions and convene periodically to:

8.4.2.1. Review and resolve the accuracy and adequacy of technical data.

8.4.2.2. Ensure munitions maintenance procedures and tasks are safe and standard among using organizations.

8.4.2.3. Resolve issues regarding storage, handling, maintenance and inspection of munitions items.

8.4.2.4. Coordinate supply issues that affect support equipment or munitions serviceability.

8.4.2.5. MAJCOMs are the only voting members at the PIWG.

Chapter 9

CONVENTIONAL MUNITIONS PLANNING

9.1. Introduction . This chapter is designed to assist munitions planners in developing a plan to support their unit's tasking(s). Munitions must be of the right type, reliable, in the right configuration, in the right quantity, and delivered to the place of need at the right time in order to meet the mission.

9.1.1. Without proper detailed planning, this cannot be accomplished with the advanced sortie rates expected in future conflicts. The ultimate success of the Air Force depends upon its ability to deliver bombs-on-target. "AMMO makes the mission" is more than just a motto; it's a reality!

9.1.2. AFMAN 10-401 Vol 1 and Vol 2 are the basic guides for planning at all echelons of command. AFI 10-404, *Base Support Planning*, complements AFMAN 10-401 by requiring all base-level plans be consolidated into a single base support plan (BSP).

9.1.3. This chapter provides the format and guidance for developing munitions chapters for a base support plan, Parts One and Two, as required by AFI 10-404. It also incorporates guidance from AFI 10-403, *Deployment Planning*, for units that are only required to write deployment plans.

9.1.3.1. Part One of the BSP will detail the resources available to support contingency tasking.

9.1.3.2. Part Two will describe concepts of operations to meet required tasking and appraisal of the unit's and incoming force's ability to fulfill those tasking.

9.2. General Guidance

9.2.1. This chapter was developed to cover tasks required by a munitions unit from operational plan (OPLAN) implementation to redeploying back to home station. Depending on the unit's mission, the planner may or may not use all paragraphs contained in Section F.

9.2.1.1. The examples used in this guide (sections, elements, munitions tasking, and other information) do not represent a specific tasking; they are provided to facilitate understanding of the type of information required for the particular section. Munitions issues were selected based on feedback from MAJCOMs and Combat Air Force (CAF) field units.

9.2.1.2. While key areas have been covered, the planner is encouraged to add additional items to provide more detail.

9.2.1.3. This chapter should not necessitate a rewrite of existing Combat Munitions Plans (CMP) or Munitions Employment Plans (MEP), but upon annual BSP review, appropriate updates should be made.

9.3. Plan Development Process

9.3.1. Plan development starts with performing a thorough and comprehensive initial site survey by someone knowledgeable of all munitions operations tasked and those operational requirements.

9.3.1.1. Site surveys are not a one-time effort; however other avenues can be pursued to obtain changed information (e.g., correspondence, telecons, etc.).

9.3.1.1.1. If a site survey cannot be accomplished because of the sensitivity of the location, valuable data can be obtained from the *Contingency Reference Book* and the *Ground Logistics Study*; two documents available at wing intelligence (INTEL) offices worldwide.

9.3.1.1.2. If more detailed information is needed, INTEL can request it from the 480th Reconnaissance Technical Group (HQ ACC), Langley AFB, VA.

9.3.1.2. This chapter lists milestones in the development process. Keep in mind, these milestones are for internal use by a munitions unit to ensure all munitions personnel are involved in the development process and all issues properly coordinated and reviewed.

9.3.1.2.1. The same concerns must also be applied to other base agencies identified in the plan as providing support or being supported.

9.3.1.2.2. It is essential for the munitions BSP office of primary responsibility (OPR) to coordinate with these base agencies to ensure required support will take place and allow them to identify the required tasks in their respective portions.

9.4. Planning Preparation.

9.4.1. BSP Part One. Identify available resources by conducting a site survey or reviewing the host unit's BSP Part One. See **Attachment 7** for Munitions Site Survey Checklist.

9.4.1.1. Personnel.

9.4.1.2. Facilities.

9.4.1.3. Vehicles.

9.4.1.4. Aerospace ground equipment (AGE).

9.4.1.5. Munitions materiel handling equipment (MMHE).

9.4.1.6. Test measurement diagnostic equipment (TMDE).

9.4.1.7. Special tools, composite tool kits (CTK).

9.4.1.8. Communications.

9.4.1.9. Automated data processing equipment (ADPE).

9.4.1.10. Administrative support equipment, information, etc.

9.4.1.11. Ensure you examine other functional areas to determine if they require, or are providing, support.

9.4.2. BSP Part Two. Identify tasking by researching the type and quantity of aircraft and units to include the earliest and latest arrival date (EAD/LAD). Keep in mind there may be multiple units and missions.

9.4.2.1. Identify the munitions requirements. Research and analyze the various documents such as:

9.4.2.1.1. The Pre-Air Tasking Order (ATO).

9.4.2.1.2. The air munitions requirements and estimated daily consumption charts from the OPLAN.

9.4.2.1.3. The Wartime Consumables Distribution Objective (WCDO).

9.4.2.1.4. A detailed build analysis report from the Combat Ammunition System (CAS).

9.4.2.2. Validate the available resources (personnel, facilities, vehicles, AGE, MMHE, TMDE, special tools, CTKs, communications, ADPE, administrative support equipment, information, etc.) by conducting a site survey, reviewing mobility listings, and researching the BSP Part One.

9.4.2.3. Identify the major operations that need to be conducted for each phase of your tasking, (Phase I Generation, Deployment and Regeneration, Phase II Employment, and Recovery/Redeployment Operations).

9.4.2.4. Identify the production, support, and command, control, communication, and computer (C4) operations needed to accomplish the major operations above. For example, marshaling of personnel and equipment, ATO requirements, initial set-up, individual bomb and precision guided munitions assembly and delivery operations, equipment maintenance operations, munitions receipt, shipment, breakout, storage, inspection, accountability, control operations and trash removal. Determine what has to happen first, second, third, etc., which will serve as a roadmap for developing the plan.

9.4.2.5. Assign responsibilities for production, support and C4 operations. Responsibilities should be assigned and written from top-down as a joint effort (i.e., Flight Commander/Chief assigns section supervisors who assigns element chiefs who assigns element supervisors).

9.4.3. Writing the Plan.

9.4.3.1. BSP Part 1. Refer to **Attachment 5** for guidance on writing a BSP Part 1.

9.4.3.2. BSP Part 2. During planning preparation, most of the milestones are accomplished at the senior supervision and element chief level and above. Now it is time to start at the bottom. The workers and their supervisors are the ones who start the writing process. Refer to **Attachment 6** for guidance on writing a BSP Part 2.

9.4.3.2.1. They perform most of these operations whether on a daily basis or during exercises, and have the best idea of what is required and how to set-up these operations.

9.4.3.2.2. It starts with each functional workgroup developing a draft on how they will fulfill their responsibilities and what resources they require.

9.4.3.2.3. They also develop flow plans and address any foreseeable problem areas.

9.4.3.3. The functional area supervisors and element chief review the draft and changes are made as applicable.

9.4.3.4. All functional area drafts are then compiled and the first roundtable review is performed by the element chiefs and above.

9.4.3.4.1. Requirements for resources are combined and matched against what is available.

9.4.3.4.2. Resources are distributed, required lateral support discussed and coordinated, flow plans consolidated, shortfalls and operational constraints identified, and workarounds established.

9.4.3.4.3. Upon completion, the functional area's respective portion is returned for changes.

9.4.3.5. Functional workgroups make changes according to the information passed down from the first roundtable review.

9.4.3.6. Once again, all functional area drafts are compiled and a second roundtable review is performed by element chiefs and above. Upon completion, the functional area's respective portion is returned for the last changes.

9.4.3.7. Functional workgroups make their final changes accordingly.

9.4.3.8. All functional area drafts are compiled and a third and final roundtable review is performed by element chiefs and above.

9.4.3.9. Plan is finalized and briefed to all personnel.

9.5. Planning Courses Available

9.5.1. The ACC Air Force Combat Ammunition Center (AFCOMAC) Course PDS Code 8RM, Air Force Catalog (AFCAT) 36-2223, *USAF Formal Schools*. This 3-week in-residence course at Beale AFB, CA, provides 2 weeks of academic instruction on MEP development followed by a weeklong bomb build-up practical exercise.

9.5.2. Contingency Wartime Planning Course PDS Code 82U, AFCAT 36-2223. This 3-week course taught at the Combat Employment Institute, Maxwell AFB, AL, teaches basic Air Force war planning. The course is structured for personnel who are at MAJCOM level and are responsible for providing command guidance.

Chapter 10

RCS: HAF-ILM (Q)-9901, MUNITIONS CAPABILITY REPORT

10.1. Procedures for Reporting. This report is due to MAJCOM munitions staff by the 15th day in January, April, July and October. Report will be forwarded by message to respective MAJCOM munitions staff. Munitions staffs are authorized to tailor this report based on mission requirements within the respective command. This report will be prepared as follows:

10.1.1. Part I. Munitions manning data: report status of all munitions personnel including those assigned to wing staff agencies (i.e., QA, safety, dorm chief, MOC, etc.).

10.1.2. Part II. Munitions key personnel listing: report key munitions personnel, including workcenter supervisors up through the squadron commander. Report by duty title, office symbol, full name, grade, PAFSC, duty phone and DEROS.

10.1.3. Part III. Equipment: list all equipment authorized against applicable table of allowance standards and current status. Ensure all PGM support/test equipment is listed. Report missile test equipment by NSN, nomenclature, serial number and part number. As a minimum, remarks will include significant problems, assets on loan or TDY, and off-base document numbers for critical equipment (all PGM test equipment and MACs as a minimum).

10.1.4. Part IV. Vehicles/MMHE: list all vehicle/MMHE authorized against applicable allowance standards and current status. Ensure all vehicle/MMHE is listed. As a minimum, remarks will include significant problems and assets on loan or TDY.

10.1.5. Part V. Facilities: list all facility deficiencies and problems that prevent or disrupt mission accomplishment. As a minimum, remarks will include significant problems, status of projects, workorder priority and net explosive weight (NEW) limitations.

10.1.6. Part VI. Missile data: list the following:

10.1.6.1. Quantity and type of missiles being used for exercise/alert loads (caps and lives).

10.1.6.2. Damage sustained, cost of and parts replaced as a result of flightline/munitions personnel handling.

10.1.6.3. Document (off base requisition number) number, all missile/PGM parts on order, date requisitioned and date received if applicable (once reported as received it is not necessary to continue reporting the item).

10.1.6.4. Date and result of semiannual missile/PGM component reconciliation of TMRS and CAS-B.

10.1.7. Part VII. Restricted or suspended munitions: list the changes and safety supplements and date received to T.O. 11A-1-1 this quarter.

10.1.8. Part VIII - List the quantity, serviceability and CSC inspection due date of Intermodal containers on hand.

Chapter 11

RCS: HAF-ILM (A)-9902, MASTER STORAGE PLAN REPORT

11.1. Procedures for Reporting. Each organization that stores or has the capability to store WRM munitions will submit a Master Storage Plan to MAJCOM munitions staff. The report will be computer generated and submitted annually as of 15 December and will be forwarded to arrive at MAJCOM munitions staff by 1 January. A complete report will be submitted every year. Each organization will report only those assets and facilities which the organization manages. MAJCOM munitions staff may request at an increased frequency if the situation warrants. Units will submit Facility Data Records for storage facilities if a significant change takes place to keep Storage Plan updated throughout the year. MAJCOM munitions staffs are authorized to tailor this report based on mission requirements within the respective command.

11.1.1. Changes in overall storage capacity or quantity distance (QD) status will be reported on the next report. Further, an explanation of why the change occurred (condemned facilities, new construction, explosive waiver, etc.) will be addressed on the cover letter of the report. The report will also be used to illustrate locations that employ the bulk storage concept.

11.1.2. A map of the storage area will be submitted to depict storage locations. The map does not need to be submitted with each report unless there is a change (new construction, perimeter change, etc.). If facilities are assigned local numbers for ease of identification in addition to civil engineering numbers, the map(s) will be so annotated. Additionally, a drawing of each type facility used to store munitions will be submitted once.

11.1.3. Provide information for each facility dedicated exclusively to munitions storage (storage igloos, magazines, revetments, multicubes, etc.). Also report each facility dedicated exclusively to maintenance operations (conventional and missile maintenance, inspection, preload and buildup areas, etc.); however this data will not be used to accomplish the calculations for the storage summary.

11.1.4. Prepare the Facility Data Record using the following format. Variations in format are allowed, as long as all information required is provided.

11.1.4.1. Type Facility/Construction. Indicate whether the facility is an above ground magazine, igloo, revetment, module, cell, maintenance facility, etc. Enter type construction, i.e., hard surface pad, Butler building, metal roof shed, concrete building, etc. Indicate whether currently used as storage or operating site.

11.1.4.2. Covered/Open. Indicate if facility is covered or open. Covered is any facility or area that has a cover over it whether it has sides or not.

11.1.4.3. Standard/Substandard. Indicate which, based on the following definitions:

11.1.4.3.1. Standard Facilities. Covered and open facilities used for the storage of explosives, constructed in accordance with DoD, USAF, or MAJCOM Civil Engineering construction criteria. For example, concrete or steel arch igloos, concrete or pre-engineered (metal) buildings, modules or single revetted hardstands sited and constructed in accordance with approved criteria and site plans.

11.1.4.3.2. Substandard Facilities. Covered and open facilities used for the storage of explosives, not constructed in accordance with DoD, USAF, or MAJCOM Civil Engineering con-

struction criteria. For example, self-help projects, temporary wooden sheds, facilities constructed by host forces that do not meet minimum USAF standards, Quonset and similar structures that require major maintenance, revetted hardstands with inadequate barricades, unrevetted buildings or pads, and gravel or PSP surfaces, etc.

11.1.4.4. Barricaded/Unbarricaded. Indicate as barricaded on one side, two sides, three sides, or four sides, or unbarricaded. Also indicate barricade height. If barricades do not meet approved height, so indicate under remarks.

11.1.4.5. IDS type, capability, and status.

11.1.4.6. Size. Indicate the length, width and height of the facility, using inside dimensions. For revetments and modular cells, basic approved design drawings must be reviewed and correlated with actual pad construction.

11.1.4.7. Square Feet. Multiply length by width.

11.1.4.8. Short Tons Stored. Indicate total storage short tons (for unpackaged/built-up items use drop tons) stored in the facility. This figure should correlate with the total of those individual weights listed in the Items Stored section of the report. Round this number off to two decimal places.

11.1.4.9. Total NEW. The total of 1.1, 1.2 and 1.3 items stored.

11.1.4.10. Percent Utilized. Indicate percent of facility utilized by NEW and Volume to include square foot utilization. Percentage will be rounded off to the nearest whole number.

11.1.4.10.1. NEW Utilized. Divide the total NEW stored by the 1.1 Nonwaivered/Waivered figure (whichever is larger) authorized. If class/division 1.1 munitions are not present in a building authorized to store 1.1 munitions show NEW utilized as 0. If a building is not authorized to store 1.1, but has other class/division munitions stored in it, show NEW utilized as 0.

11.1.4.10.2. Percent Volume Utilized. Indicate the percentage of storage structure floor space used, to include aisle space. Air Force owned facilities that are on loan to other services, utilized by other AF organizations, or used by Custody Accounts that the storage areas do not control, i.e., EOD, AMC, etc., will be counted as 100% utilization. Now multiply the SF available times the percent utilized, i.e., 6000 SF X 50% or .5 volume used = 3000 SF utilized. Enter this figure as Square Foot Utilized.

11.1.4.11. NEW Capacity. On the first line, enter nonwaivered and waivered capacity in pounds of class/division 1.1. On the second line, enter like information for all other class/divisions.

11.1.4.12. Indicate items stored by DoDIC (if no DoDIC is listed in the DoD Catalog, RIMF, or CAS Indicative Data, use NSN), noun, quantity, short tons (for ready items not packaged use drop tons), class/division, and NEW.

11.1.4.13. Current Waiver/Exemption Data. Indicate data on all waivers/exemptions in effect. List amount actually waivered/exempted in pounds, hazard class/ division involved, type of waiver (waiver, exemption, etc.) and expiration and review date of waivers. This information for individual locations may be combined and submitted as an attachment to the report.

11.1.4.14. Comments/Limiting Factors. Indicate any additional information, which may add objectivity to the report or clarify data submitted. If the facility is considered substandard, indi-

cate the reason. Provide any additional data pertinent to munitions storage and operating facilities not otherwise indicated.

11.1.4.15. Inform the MAJCOM of all new construction projects and workorders submitted for facility improvements/modifications for infrastructure support. Include wing priority, whether the project is funded, cost, estimated completion date.

PART 2

MUNITIONS ACCOUNTABILITY

Chapter 12

GENERAL ACCOUNTABILITY

12.1. Ensuring Accountability. A Munitions Accountable Systems Officer (MASO) will be assigned to account for DoD stocklisted munitions including only those Commercial off The Shelf (COTS) munitions items (see Chapter 32) approved and managed by OO-ALC/WM. MASOs may be responsible for accountability of munitions assigned local NSNs when approved by MAJCOM. Munitions will be assigned to and managed on a stock record account (SRAN/DoDAAC, example: FV5294) which is subject to audit. While the MASO may not have direct physical control of all munitions items, they retain responsibility for accurate, reliable, and auditable records. Individuals and organizations that physically control, possess, store or maintain munitions items are responsible for proper custody, care, accountability and security. The USAF:

12.1.1. Account for munitions by NSN, lot or serial number, quantity, and condition code. Munitions items are accounted for until they are expended, installed, turned in or removed from Air Force stock according to the guidance in this instruction.

12.1.2. Maintain munitions accountability and report inventory data on an automated system whenever possible. Bases and stations will use the CAS.

12.1.3. For nuclear accounts, refer to AFI 21-204.

12.2. Appointing the Munitions Accountable Systems Officer (MASO).

12.2.1. The MASO will be appointed in accordance with AFI 23-111, *Management of Government Property in Possession of the Air Force.*

12.2.1.1. Individuals who change or adjust accountable munitions records must be in the MASO's supervisory control. ANG individuals, who change, adjust, post or sign accountable munitions records will be appointed in writing by the MASO.

12.2.2. Appointing officials, defined by AFI 23-111, will sign a certificate of transfer to signify appointment of the MASO. Use the CAS-B produced certificate when available. When the CAS-B product is not available or when units are operating under CAS-D, use the example in **Figure 12.1.** when preparing their certificate of transfer letter.

12.2.3. Prior to transfer of MASO responsibilities, a 100 percent inventory of the munitions stock record account will be performed. This inventory will be validated jointly by the outgoing and incoming MASOs.

12.2.3.1. Waiver requests for this inventory will be submitted to MAJCOM.

12.2.3.2. Inventory discrepancies will be resolved by processing inventory adjustment documents or initiating a Report of Survey (ROS) prior to accomplishing a Certificate of Transfer. The appointing official must determine if reasons exist to preclude relieving the MASO of responsibility.

12.2.4. The incoming MASO will review the account using MAJCOM provided checklists and previous audit and inspection reports. This review will be accomplished, documented, and results briefed to the appointing official prior to assumption of account.

Figure 12.1. Example of Certificate of Transfer.

_____, DATE:____

"I certify that the balances shown on the records of activity/SRAN/DoDAAC_____ as of the above date, total line item balances_____ , dollar value of the inventory , the last document number used _____ dated _____ , the last transaction number assigned _____ dated _____, are true and correct and to the best of my knowledge and belief and that the property has this date been turned over to _____ pursuant to_____ ."

_____

(Signature of the Officer Being Relieved)

"I certify that I have this date received from _____ Predecessor, all property pertaining to the above designated activity/SRAN/DoDAAC for which my said predecessor was accountable, plus all proper charges against and less all authorized credits to my predecessor's activity/SRAN/DoDAAC to the last document number _____dated _____, and last transaction number _____ dated _____, and I have this date assumed accountability for the property pertaining to this activity/SRAN/DoDAAC.

_____

(Signature of Designated Successor)

Approved: _____(Appointing Official)

12.2.5. Maintain the certificate of transfer, any approved waivers and the MASO's documented review as long as accountable documents remain in file with their signature.

12.2.6. A separate certificate of transfer will be completed for each stock record account transferred.

12.2.7. Appoint a qualified successor if the MASO is absent for more than 90 consecutive days. The appointing official may request their MAJCOM munitions staff waive this requirement. All such requests should contain justification for waiver.

12.3. Managing Stock Record Account Numbers/Department of Defense Activity Address Codes (SRAN/DoDAAC).

12.3.1. A SRAN/DoDAAC as used in this instruction refers to active or contingency munitions accounts.

12.3.2. Normally, units will only have one non-nuclear munitions account at each base. Units may maintain separate conventional and nuclear accounts with different MASOs. This gives the option to appoint an officer as MASO of the nuclear account and a senior NCO as MASO for the conventional account. The host account provides munitions support for all tenant activities or functions located on

and off base. Refer to AFI 21-204 for management of the Special Weapons Information Management (SWIM) nuclear account.

12.3.3. HQ AFMC/DRAW is the focal point for munitions SRAN/DoDAACs. A base may maintain more than one non-nuclear munitions account (i.e., War Reserve Stock for Allies). Requests for additional SRAN/DoDAACs should clearly indicate why it is in the best interest of the Air Force.

12.3.4. Air National Guard (ANG) and Air Force Reserve (AFRC) organizations may establish an account at any base or location that maintains an active munitions operation.

12.4. Establishing a SRAN/DoDAAC.

12.4.1. To establish a SRAN/DoDAAC, send requests through your MAJCOM munitions staff to HQ AFMC/DRAW. All requests will include:

12.4.1.1. Type account (conventional or nuclear).

12.4.1.2. Base name (if not controlled).

12.4.1.3. System designator code.

12.4.1.4. Parent MAJCOM.

12.4.1.5. Mailing address, including the street address and 9-digit Zip Code.

12.4.1.6. Freight address.

12.4.1.7. Air and sea port of embarkation (POE), if applicable.

12.4.2. Establish SRAN/DoDAACs for known contingency operating locations. If the locations are classified, classify the request appropriately.

12.4.2.1. Establish controlled activity SRAN/DoDAACs when it might compromise security if the SRAN/DoDAAC and location name were published in the BIF. Controlled addresses are published with “controlled” as the clear text address.

12.4.2.2. Requests to establish controlled SRAN/DoDAACs must include the classification level.

12.4.2.3. DoD Manual 4000.25-6-M, *DoD Activity Address Directory (DoDAAD*), Parts I and II, publishes controlled SRAN/DoDAACs (This manual comes in three parts and are located on microfiche). The controlled SRAN/DoDAAC number is classified when associated with the clear text address or geographical area code.

12.4.3. MAJCOM munitions staffs maintain accuracy of SRAN/DoDAAC information by updating applicable systems and coordinating changes with HQ AFMC/DRAW.

12.4.3.1. Submit SRAN/DoDAAC change requests, by letter, message or e-mail through the MAJCOM munitions staff, to HQ AFMC/DRAW. Include:

12.4.3.1.1. Effective date of change.

12.4.3.1.2. Intended disposition of all on-hand assets.

12.4.3.1.3. Statement of all canceled due-in requisitions.

12.5. MASO Management of Munitions.

12.5.1. The MASO manages all explosives and munitions items to include only those Commercial off the Shelf (COTS) munitions approved and managed by OO-ALC/WM.

12.5.1.1. The MASO may delegate authority, in writing, for operating the munitions account, to include signing documents and listings. However, the MASO retains responsibility and establishes a clear understanding of the responsibility and authority that goes with each level of delegation.

12.5.2. The Reportable Item Master File (RIMF) lists all munitions to be managed by the MASO.

12.5.2.1. Munitions managed by the MASO are identified by an alpha budget code (i.e. H, T, I, etc…) and Expendability Reparability Recoverability Code (ERRC) of XB3, XD1 or XD2, all of FSC 1300 and other munitions as directed by the appropriate ALC or MAJCOM.

12.5.2.2. For Nuclear Remote Interface Units (NRIU), and Ruggedized NRIU will be managed on either the nuclear account using SWIM or conventional account using CAS IAW AFI 21-204.

12.5.2.3. If there is a question whether or not an item should be managed by the MASO, contact the appropriate ALC Customer Service Center.

12.5.3. The MASO will develop and publish a wing operating instruction providing direction to commanders, custodians, and munitions users in munitions accountability procedures. As a minimum, include procedures for:

12.5.3.1. Maintenance storage, issue and turn-in.

12.5.3.2. Responsibility to monitor shelf and service life.

12.5.3.3. Responsibility to maintain original packaging for issued munitions.

12.5.3.4. Responsibility to maintain munitions in original packing except for assets in use.

12.5.3.5. Establishing and maintaining account jacket folder.

12.5.3.6. Inventory, account management, and expenditure validation.

12.5.3.7. Supporting documentation and management products.

12.5.3.8. Requirements forecasting and disposition.

12.5.3.9. Expended brass, munitions residue, and the munitions recyclable sales program and forms.

12.5.3.10. Loss/Damage reporting processes.

12.5.3.11. Mobility.

12.5.3.12. Courtesy storage requirements.

12.5.3.13. Security and handling.

12.5.3.14. Transportation (on/off base).

12.5.3.15. Suspended and restricted stocks.

12.5.3.16. After-hours support.

12.5.3.17. Unique local requirements.

12.5.3.18. Munitions user briefings and training.

12.5.3.19. Lot number integrity program.

12.5.3.20. Category D (Peacetime Consumables) bits and pieces use, storage, inventory, replenishment, and disposition.

12.5.4. Ensure CAS intransit data is updated as assets are received (receipt processed) or released (shipments) to Transportation Management Office (TMO) (Date Departed Station).

12.5.5. TCTO kits and components identified as munitions will be managed by the TCTO monitor using general accounting procedures in this section.

12.5.6. Personal Defense Ammunition for Air Force General Officers. This includes active Air Force Reserve, federally recognized Air National Guard general officers, and other US general officers assigned to the Air Force under Joint Service Agreements.

12.5.6.1. The basic load or authorized requirements are forecasted in conventional ammunition major category C - Peacetime Static Level (non-WRM and non-consumable).

12.5.6.1.1. These assets are not authorized for training use.

12.5.6.1.2. Initial and recurring proficiency training is forecasted and supported by the unit (or host) combat arms training management (CATM) program.

12.5.6.2. This ammunition will be retained on a custody account.

12.5.6.3. Upon general officer PCS or retirement, this ammunition may be retained on custody account for inbound general officer use, otherwise it will be turned into base stock.

12.6. Munitions Interservice Release Procedures.

12.6.1. Ensure ammunition and explosive items are not released to agencies or individuals outside the Air Force unless at least one of the following conditions are met:

12.6.1.1. Assets required by a sister service to meet contingency or emergency needs, the Unified Commander in Chief (CINC) directs release to another service. The Joint Materiel Priorities and Allocations Board (JMPAB) will be the final authority in resolution of any remaining issues between the services.

12.6.1.1.1. Annotate all shipping documents with "Released IAW JMPAB direction", and attach copies of authorizing correspondence to the documents.

12.6.1.1.2. During routine daily operations, services shall provide required munitions and related equipment. Should redistribution of munitions be required during joint operations (exercises or contingencies), the MAJCOM, in conjunction with the CINC J4 function, coordinate with ILMW to determine munitions status worldwide and resolve.

12.6.1.1.2.1. Reimbursement/replacement procedures will be developed for munitions expenditures.

12.6.1.1.2.2. Munitions will not be released to agencies outside the AF without ILMW approval.

12.6.1.1.2.3. Additional munitions will not automatically be allocated to MAJCOMs based upon loan to and/or subsequent expenditure by another service or DoD component.

12.6.1.1.3. A designated disclosure authority must approve release of classified or controlled munitions, technical data or information to foreign governments or international organizations.

12.6.1.1.3.1. Requests/ proposals to release classified or controlled unclassified munitions, technical data, or information should be referred to the servicing MAJCOM Foreign Disclosure Office (FDO).

12.6.1.1.3.2. Requests/ proposals that exceed MAJCOM FDO delegated authority, or originate at the Service/agency level, should be directed to the Disclosure Division Deputy Under Secretary of the Air Force, International Affairs, (SAF/IAD), Pentagon 1010, Washington DC, 20330-1010.

12.6.1.1.4. Assets are authorized for release under an approved FMS Case and shipment is directed by the MAJCOM munitions function. Annotate all shipping documents with "Released IAW FMS-CASE XXXX", and attach copies of authorizing correspondence to the documents.

12.6.1.1.5. An existing Acquisition Cross-Servicing Agreement (ACSA) authorizes the release, and MAJCOM LG has approved the release. Annotate all documents with "Released IAW ACSA" and attach copies of authorizing correspondence to the documents.

12.6.1.1.6. Release has been approved or directed by HQ USAF/ILMW.

Chapter 13

FORECASTS

13.1. Munitions Forecast. The munitions forecast is the primary means of identifying munitions requirements.

13.1.1. Forecasting requirements contained in AFI 21-208, *Munitions Forecast, Allocation and Buy Budget Processes* have been rescinded.

13.1.1.1. Until new guidance is written and added to this chapter, OO-ALC/WM, in conjunction with HQ USAF/ILMW and HQ USAF/XORW will provide procedures to MAJCOMs for preparing forecast requirements.

13.1.2. Time change items are forecasted using procedures contained in T.O. 00-20-9.

Chapter 14

UNIT ALLOCATION PROCEDURES

14.1. Determining Proper Stock Levels.

14.1.1. MAJCOMs provide unit allocations based on the MAJCOM positioning objective determined by the GAP process. For Category F and G authorizations see **Attachment 4**.

14.1.2. Load unit allocations in CAS IAW MAJCOM instructions. Ensure obsolete levels are deleted.

14.1.2.1. To validate proper host/user command code relationships in CAS-B, the MASO will accomplish the following procedures immediately after unit allocations are loaded and again in the month of February.

14.1.2.1.1. Compare the CAS-B listing IS503A to the Air Force Forms 68 and unit allocation document to verify that all organization/shop codes and host/user relationship codes are loaded correctly.

14.1.2.1.2. MASO must review IS503A listing for accuracy, and sign it certifying listing reflects correct command codes.

14.1.2.1.3. Maintain most current listing.

14.1.2.1.4. Identify host/user relationship discrepancies with expenditure information, to OO-ALC/WM CAS-A Program Manager, host and user MAJCOM within one week after review.

14.1.2.2. AFCSM 21-824 Vol. 2, paragraph 15.4 provides procedures for updating the IS503A using the ISA10A screen.

14.1.3. Provide each organization with a copy of their allocation.

14.1.4. Units may be allocated munitions items in more than one category. Each item must be issued and expended for its intended purpose.

14.1.4.1. Units may transfer allocations between categories as allowed by MAJCOM. Note: MAJCOM must receive Air Staff approval prior to authorizing allocation transfers from non-expendable to expendable categories.

14.1.4.2. It is a violation of Air Force policy to use munitions for purposes other than those for which they were originally issued. Such abuse could result in action under the Uniform Code of Military Justice (UCMJ).

14.1.5. Units may keep on-hand munitions/missiles in excess of non-expendable allocations until the MAJCOM, OO-ALC/WM or WR-ALC/LGK directs redistribution.

14.1.5.1. MASO must approve customer requests for excess non-expendable assets left on custody accounts. ANG custody accounts will turn-in all excess munitions. Approved requests will be kept in the custody account jacket file.

14.1.5.2. Items will be turned in and processed for shipment when MAJCOM or ALC redistribution order (RDO) action is received.

14.1.5.3. Allocations in CAS will not be increased to support excesses.

14.1.6. Use AF Form 1996 to support stock levels for items without a Master Subsidiary Relationship Code.

14.1.6.1. All AF Forms 1996 will be coordinated with the MASO, MAJCOM and the inventory management specialist at the Inventory Control Point.

14.1.6.2. For documenting the AF Form 1996 see **Attachment 3**.

14.1.7. For CAD/PAD Time Change guidance see **Chapter 31**.

14.2. Out of Cycle Request (OOCR). Request for allocation increases or additions will be prepared and coordinated IAW instructions in this paragraph. OOCRs are not to be used as a band-aide for poor forecasting.

14.2.1. OOCRs may not be submitted prior to the third quarter of the Fiscal Year (1 April) or until at least 50 percent of the allocation has been expended. For OCONUS MAJCOMs, they will work OOCRs on a case-by-case basis.

14.2.1.1. Items that were not 100 percent allocated were allocated based on available assets. The probability of an OOCR being approved or increased is slim.

14.2.1.2. Requesting organizations will prepare the OOCR in letter format as follows:

14.2.1.2.1. Master NSN (If a substitute stock number other than the master must be used due to restrictions, list both stock numbers and identify restrictions.

14.2.1.2.2. Nomenclature.

14.2.1.2.3. Requirement Code.

14.2.1.2.4. Functional User Code (FUC). Refer to **Attachment 5**.

14.2.1.2.5. Custody Account Number.

14.2.1.2.6. Current Fiscal Year Allocation (If any).

14.2.1.2.7. Current Fiscal Year Expenditure Data (If any).

14.2.1.2.8. Requested Allocation Increase.

14.2.1.2.9. Authorizing Directive.

14.2.1.2.10. Formula (How did you calculate the amount needed).

14.2.1.2.11. Impacts if request is disapproved (Be specific).

14.2.1.3. The letter will be signed by the unit squadron commander and submitted to the MASO.

14.2.2. The MASO will examine on-hand balances and allocations to determine if requests can be satisfied locally.

14.2.2.1. If the MASO can satisfy the OOCR, the allocation transfer will be coordinated with the applicable MAJCOM Munitions User Functional Manager (MUFM).

14.2.2.2. The MASO will identify to the MUFM by message the losing and gaining custody account numbers, the amount of transfer and the category code.

14.2.2.3. If the MASO cannot satisfy the OOCR with existing wing allocations, the MASO must annotate quantity of assets on-hand to support the OOCR, endorse it and return it to the requester.

14.2.3. Requesting organization will forward a message released by the applicable group commander to the MAJCOM MUFM for OOCRs that cannot be satisfied by the MASO.

14.2.4. MAJCOM MUFMs will review command allocations to see if request can be satisfied within command.

14.2.5. If satisfied within command, the MUFM will identify to the MAJCOM Munitions Staff in writing the amount transferred from the losing and gaining bases, and the applicable custody account codes.

14.2.6. If request cannot be satisfied within command, MAJCOM MUFMs may coordinate with other commands to obtain an allocation transfer.

14.2.7. MAJCOM MUFMs must coordinate all munitions allocation transfers with the MAJCOM Munitions Staff.

14.2.8. If a request cannot be satisfied within command, the MUFM will obtain current expenditure data from the MAJCOM Munitions Staff prior to submitting to HQ USAF/XORW, AFSFC/SFWC, or AFCESA/CEX, as applicable, for approval/disapproval.

14.2.8.1. The MAJCOM Munitions staff will assign an OOCR control number consisting of the command, fiscal year and sequence number (i.e., AETC-00-001) and MUFMs will track the status of all OOCRs.

14.2.8.2. HQ USAF/XORW, AFSFC/SFWC, or AFCESA/CEX, as applicable, will send approval/disapproval notification to applicable MAJCOM and info OO-ALC/WM.

14.3. Allocation Transfers Supporting Exercises.

14.3.1. The MASO confirms the unit has sufficient allocations to support exercise requirements and passes allocations to the supporting unit MASO not later than 120 days (CONUS) and 180 days (OCONUS) before the exercise begins.

14.3.2. MASOs will transfer allocations to other MAJCOMs and bases to support exercises. All inter-command allocation transfers will be completed in message format to OO-ALC/WM and affected MAJCOM MUFMs and munitions staffs.

14.3.2.1. The losing MASO will ensure the allocation and “remaining quantity to be issued field” in CAS is decreased by the amount transferred.

14.3.2.2. The gaining MASO will ensure the allocation and “remaining quantity to be issued field” in CAS is increased by the amount transferred.

14.3.2.2.1. The gaining MASO has requisition (stock control) responsibility for all increased or transferred allocations provided the time requirements in paragraph **14.3.1.** are met.

14.3.3. After the unit completes the exercise, the host unit provides an after-action report to the participating units, MAJCOM, and OO-ALC/WM (command-to-command transfers only) listing the unit, type of aircraft, type of munitions, NSNs or complete round codes (CRC), initial allocation, quantities of munitions expended, and remaining allocation by participating units. This report is accomplished not later than 30 days after exercise completion.

14.3.3.1. Once the participating unit receives the after-action report, they will increase their "Current Allocation" and "Remaining Quantity to Issue" fields in CAS to reflect remaining allocations returned from the exercise.

14.3.3.2. The MASO at the exercise location will decrease its' "Current Allocation" and "Remaining Quantity to Issue" fields in CAS to reflect the amount transferred back to the home unit.

Chapter 15

GLOBAL ASSET POSITIONING (GAP)

15.1. Program Scope. Global Asset Positioning integrates four munitions war reserve materiel (WRM) positioning programs to meet anticipated demands on time and resources. These provide war fighting Commanders-in-Chief (CINC) with their initial starter stocks, provides rapid swing stock response capability with the APF and STAMP/STRAPP, and provides for swing stock positioning by theaters and CONUS. The program includes:

15.1.1. USAF afloat prepositioning ships (APF).

15.1.2. Harvest Standard Air Munitions Packages (STAMP)/Harvest Standard Tanks, Racks, Adapters, and Pylons Packages (STRAPP).

15.1.3. Operational In-place Theater stocks.

15.1.4. CONUS stocks.

15.2. AFLOAT Prepositioning Fleet (APF) General Information.

15.2.1. The USAF APF stores multiple munitions loads and is forward-based. The APF fleet provides CINCs significantly greater deployment flexibility by reducing early lift requirements. APF prepositioning allows for the rapid movement of critical munitions assets from one region to another as priorities or circumstances dictate.

15.2.1.1. The APF is manned and maintained by civilian mariner crews. Vessels require permissive off loading with adequate terminal and port facilities, either afloat or ashore, to discharge explosive cargo. Supported CINCs must ensure host nation support to expedite cargo operations, minimize port congestion, and move the forward echelon out of the seaports.

15.2.1.2. Upon discharge of cargo, and subsequent release by supported CINC, vessels will revert to the US Transportation Command (USTRANSCOM) common-user sealift pool, unless assigned by the Chairman of the Joint Chiefs of Staff to support operational requirements of another CINC.

15.2.1.3. Deployable APF port teams monitor loading and unloading of USAF munitions during contingencies. Teams maintain accurate cargo manifests and monitor asset handling, stowage and serviceability.

15.2.1.3.1. Annually, GAP conference members review and identify APF port team requirements and procedures. A deployable port team will be comprised of a minimum of six personnel, and two applicable computer systems.

15.2.2. USTRANSCOM. Provides overall policy guidance and direction to its components, Military Sealift Command (MSC) and Military Traffic Management Command (MTMC), on management of the USAF APF.

15.2.2.1. MSC will:

15.2.2.1.1. Procure ship leases to support the APF program.

15.2.2.1.2. Ensures the ship custodian maintains documents to include two complete sets of PREPO AFTO Forms 102, **Munitions Inspection Document**, and Master Tally Sheets (computerized inventory).

15.2.2.1.3. Ensures the ship custodian updates APF records to reflect suspensions, restrictions and TCTO actions.

15.2.2.2. MTMC will:

15.2.2.2.1. Support and sustain tasks related to ship scheduling, coordination of inland movement, cargo loading and downloading, and port operations.

15.2.2.2.2. Prepare Military Standard Transportation and Movement Procedures (MILSTAMP) documentation.

15.2.3. Theater Commanders.

15.2.3.1. During peacetime, the APF are under the operational control of the CINC in whose area of responsibility the ships are located.

15.2.3.2. For deliberate planning, the Joint Strategic Capabilities Plan (JSCP) apportions the APF as forces. As apportioned in the JSCP, one or more vessel may be tasked in OPLAN Time-Phased Force and Deployment Lists (TPFDL).

15.2.3.2.1. Time-Phased Force and Deployment Data (TPFDD) research must consider ship stowage plans, port unloading times, and the amount of time it takes to move assets from one theater to another. Obtain approximate fleet-sail-times from the APF Program Manager (OO-ALC/WMR). Also consider assets available through other means such as CONUS or forward based swing stocks, and STAMP/STRAPP.

15.2.3.3. The unified command's air component command submits TPFDD requirements to the CINC. The CINC validates the requirements during the execution-planning phase for later entry into the CINC's validated TPFDD. Deployment planning should allow for flexibility as the preplanned priorities sometime change in execution.

15.2.3.4. During execution, actual commitment of the APF to CINCs will be in accordance with Joint Chiefs of Staff (JCS) established priorities. Once the vessel is chopped to the theater CINC, he or she decides how to best utilize the assets on board by determining the offload strategy to meet mission needs. CINCs may address requests for reallocation of assets to the Chairman of the Joint Chiefs of Staff to be handled through the Joint Materiel Priorities and Allocations Board (JMPAB). Final authority to divert APF vessels requires the National Command Authority approval. The JMPAB decides user priority if more than one OPLAN is executed simultaneously.

15.2.3.5. Send a copy of any OPLANs that source APF to:

15.2.3.5.1. HQ USAF/ILMW, 1030 Air Force Pentagon, Washington DC 20330-1030.

15.2.3.5.2. HQ AFMC/DRAW, 4375 Chidlaw Rd, Suite 6, Wright-Patterson AFB, OH 45433-5006.

15.2.3.5.3. OO-ALC/WMR, 6043 Elm Lane, Hill AFB, UT 84056-5819.

15.2.4. Afloat Prepositioned Fleet (APF) Management Team (OO-ALC/WMR) responsibilities:

15.2.4.1. Performs 5-year periodic cross-load inspections, as well as develop and implement an on-board 6-month interval ship surveillance inspection schedule IAW T.O. 11A-1-10.

15.2.4.2. Screens T.O. 11A-1-1 for any suspended/restricted munitions assets loaded on board any of the three APF vessels, as well as monitoring TCTO actions.

15.2.4.3. Immediately notifies HQ USAF/ILMW, HQ AFMC/DRAW, MAJCOMs and ship custodians of suspended/restricted munitions assets aboard APF vessels.

15.2.4.4. Submits annual forecast to HQ USAF/ILM and ILS to procure manpower and funding in support of the APF deployable port teams performing maintenance, inspection, and asset rotation during vessel cross-load operations.

15.2.4.5. Coordinates load planning, port operations, asset maintenance, inspection and rotation activities.

15.2.4.6. Develops, maintains, and distributes "Battle Books" containing individual vessel characteristics, stow plans, inventory data, and recommended downloading procedures.

15.2.4.7. Performs and documents a complete physical inventory of USAF munitions assets aboard each vessel.

15.2.4.8. Maintains accurate inventory/location/periodic inspection data in the TMRS of assigned weapon systems for each vessel. Submit monthly status update reports to the RAMS office at WR-ALC IAW T.O. 21M-1-101.

15.2.4.9. Distributes inventory record copies and PREPO AFTO Form 102, **Munitions Inspection Document**. Provides original and first copy of inventory to ship custodian. Second copy and set of PREPO AFTO Form 102s will be maintained by OO-ALC/WM.

15.3. Harvest Standard Air Munitions Packages (STAMP) and Harvest Stan dard Tanks, Racks, Adapters, and Pylon Packages (STRAPP) General Information.

15.3.1. HARVEST STAMP and HARVEST STRAPP comprise a single program known as STAMP/STRAPP. The program includes WRM munitions and Tanks, Racks, Adapters and Pylons (TRAP) for airlift to meet immediate requirements in any theater of operations. In most cases, STAMP is configured for a complete round configuration capability.

15.3.2. HQ USAF/XORW:

15.3.2.1. Validates STAMP and STRAPP requirements approved at the GAP Conference. Sends a validation message to AIG 10121 and publishes the NCAA containing STAMP and STRAPP asset requirements.

15.3.2.2. Forecasts STAMP and STRAPP requirements to OO-ALC/WM.

15.3.2.3. Validates requirements for notional STAMP taskings. Provides notification to OO-ALC/WRM on the validly of the requirements for notional STAMP taskings.

15.3.3. OO-ALC/WMR, as the STAMP/STRAPP program manager:

15.3.3.1. Verifies notional tasking requirements.

15.3.3.2. Notifies USSOCOM/J-4 of actions affecting Special Operations Forces packages.

15.3.3.3. Serves as the point of contact for unit type code (UTC) and deployment information.

15.3.3.4. Directs STAMP/STRAPP units to prepare packages for shipment.

15.3.3.4.1. Sends tasking message for 649 MUNS to: OO-ALC HILL AFB UT //CC//, 75 ABW HILL AFB UT //CC/CP/LG/LGT/XPI/XPP//, and 649 MUNS HILL AFB UT //CC/MA//. With info addressees of: HQ USAF WASHINGTON DC // ILXX-CSC/XOR/XORW/ILMW//, HQ AFMC WRIGHT PATTERSON AFB OH //BS/DRAW//, and to the info addressees listed on original request message.

15.3.3.4.2. Sends tasking message for 651 MUNS to: SA-ALC KELLY AFB TX //CC//, 76 ABW KELLY AFB TX //CC/CP/LG/ XPI//, and 651 MUNS LACKLAND AFB TX //CC/LGW//, with info addressees of: HQ USAF WASHINGTON DC // LGXX-LRC/XOR/X0RW/ILMW//, HQ AFMC WRIGHT PATTERSON AFB OH //BS/DRAW//, 37 TRW LACKLAND AFB TX//CC/CP/LG/LGT/XPR//, 75 ABW HILL AFB UT//CC/LG//, and to the info addressees listed on original request message.

15.3.3.5. Prepares RCS: HAF-ILM (M&D)-9459, **STAMP and STRAPP Status Report**, quarterly in peacetime using the format at **Figure 15.1.** Sends consolidated program message reports via AIG 10121 not later than the 1st of the quarter, with info addressees of: HQ USAF WASHINGTON DC //XORW/ILMW//, and HQ AFMC WRIGHT PATTERSON AFB OH //DRAW//.

15.3.3.6. Prepares RCS: HAF-ILM (M&D)-9459 as status to the packages changes, but not to exceed once daily, during contingencies, using the format at **Figure 15.2.** This report is designated emergency status code C1 - Continue reporting during emergency conditions, priority precedence. Submit data requirements assigned this category as prescribed or by any means to ensure arrival on the established due dates. Continue reporting during MINIMIZE. Send report to AIG 10121, with info addressees of: HQ USAF WASHINGTON DC //ILXX-CSC/XORW/ILMW//, and HQ AFMC WRIGHT PATTERSON AFB OH //BS/DRAW//.

15.3.3.7. Coordinates with sources of supply to ensure requisitions are filled.

15.3.3.8. Is the STAMP and STRAPP pilot unit, and inputs, maintains, and updates Unit Type Code (UTC) data in the Contingency Mobility Planning and Execution System (COMPES).

15.3.3.8.1. Coordinates with STAMP/STRAPP units to ensure standardization.

15.3.3.9. Coordinates to replenish STAMP and STRAPP assets. This effort takes priority over all other prepositioned assets for units with Functional Activity Designator II-09 (FAD 2-09) or lower unless otherwise directed by HQ USAF.

15.3.4. HQ AFMC designated STAMP/STRAPP Units (649 MUNS and 651 MUNS):

15.3.4.1. Ensure base plans are developed to support STAMP and STRAPP operations.

15.3.4.2. Immediately notify OO-ALC/WM of problems affecting deployments.

15.3.4.3. Are responsible for munitions and TRAP assets, to include: requisitioning, receiving, storage, handling, accounting, reporting, maintaining, inspecting, changing, assembling, and palletizing.

15.3.4.4. Ensure project code "436" is included on all STAMP requisitions. Project code "139" will be included on all STRAPP requisitions.

15.3.4.5. Prepare RCS: HAF-ILM (M&D)-9459 monthly in peacetime using the format in **Figure 15.2.** Send message reports to OO-ALC Hill AFB UT //WMR//, not later than the 20th of the

month, or as directed by OO-ALC/WMR, with info addressees of: HQ USAF WASHINGTON DC //XORW/ILMW//, and HQ AFMC WRIGHT PATTERSON AFB OH //DRAW//.

15.3.4.6. Prepare RCS: HAF-ILM (M&D)-9459 as status of the package change, not to exceed once daily, during contingencies, using the format in **Figure 15.2.** Send this report to OO-ALC Hill AFB UT //WMR//. Report is designated emergency status code C1 - Continue reporting during emergency conditions, priority precedence. Submit data requirements assigned this category as prescribed or by any means to ensure arrival on the established due date. Continue reporting during MINIMIZE, with info addressees of: HQ USAF WASHINGTON DC //XORW/ILMW//, and HQ AFMC WRIGHT PATTERSON AFB OH //DRAW//.

15.3.4.7. Ensure replacement assets can be received during out-load operations.

15.3.4.8. When deploying STAMP and STRAPP:

15.3.4.8.1. Use DD Form 1149, **Requisition and Invoice/Shipping Document**, DD Form 1348-1A, **DoD Single Line Item Release/Receipt Document**, or Deployable Mobility Execution System (DMES)/Logistics Module (LOGMOD) Deployment Document as the shipping document. Ensure authorized transportation representative signs the "Document Control" copy of whichever form is used as the shipment document.

15.3.4.8.2. Apply AFI 24-204, *Preparing Hazardous Materiel for Military Air Shipment* Chapter 3, procedures when deploying STAMP packages.

15.3.4.8.3. Coordinate with the Installation Deployment Officer and hazardous cargo area transportation personnel to meet explosive safety standards before moving packages to the hot cargo pad for aircraft loading operations.

15.3.4.8.4. Ensure they possess access to a Global Command and Control System (GCCS) telenet terminal and train their personnel on its use.

15.3.4.9. Timely replenish STAMP and STRAPP assets. This effort takes priority over all other prepositioned assets for units with Functional Activity Designator II-09 (FAD 2-09) or lower unless otherwise directed by HQ USAF.

15.3.5. Theater Commanders:

15.3.5.1. Coordinate with OO-ALC/WMR to source tasking locations for OPLAN TPFDD.

15.3.5.2. Must, as a minimum, notify these agencies for notional requests of STAMP and STRAPP or implementation of an OPLAN TPFDD: OO-ALC HILL AFB UT //BS/RC/WMR// by immediate precedence message, with information addresses of HQ AFMC WRIGHT-PATTERSON AFB OH //BS/DRAW//, HQ USAF WASHINGTON DC //XORW/ILXX-CSC//, 651 MUNS LACKLAND AFB TX //CC/LGW//, 649 MUNS HILL AFB UT //CC/MA//, 37 TRW LACKLAND AFB TX//CC/CP/LG/LGT/XPR//.

15.3.5.2.1. Packages that OPLAN TPFDDs identify are deployed in scheduled sequence during OPLAN execution and do not require a tasking message.

15.3.5.2.2. During execution, actual commitment of STAMP and STRAPP to CINCs will be in accordance with JCS established priorities. CINCs may address requests for reallocation of STAMP and STRAPP to the Chairman of the Joint Chiefs of Staff, handled through the Joint Materiel Priorities and Allocation Board (JMPAB). Final authority to divert STAMP and

STRAPP requires National Command Authority approval. JMPAB decides user priority if more than one OPLAN is executed simultaneously.

15.3.5.3. Send a copy of any OPLANs that source STAMP and STRAPP to the following organizations:

15.3.5.3.1. OO-ALC/WMR, 6043 Elm Lane, Hill AFB, UT 84056-5819.

15.3.5.3.2. HQ USAF/XORW, 1030 Air Force Pentagon, Washington DC 20330-1030.

15.3.5.3.3. HQ AFMC/DRAW, 43714 Chidlaw RD, Suite 6, Wright-Patterson AFB, OH 45433-5006.

15.3.5.3.4. 649 MUNS/CC, 7530 11th ST, Hill AFB UT 84056-5707.

15.3.5.3.5. 651 MUNS/LGW, 1447 Service Road, Bldg M444, Lackland AFB TX, 78236-5719.

15.4. Theater Prepositioned and CONUS-Stored Assets. Theater prepositioned assets, although an integral part of GAP, are managed by owning theater commanders.

15.4.1. CONUS stored assets can be in any one of three categories:

15.4.1.1. Retail stocks assigned to CONUS base accounts.

15.4.1.2. Wholesale stocks at AFMC depots or facilities.

15.4.1.3. Wholesale stocks at Army ammunition plants and depots. The SMCA manages these Army depots. Most of the Air Force CONUS-stored assets are at these SMCA-managed locations.

15.5. Munitions Transportation Funding, PACER AMMO.

15.5.1. PACER AMMO is the official DoD nickname for the centralized funding process identifying the transportation requirements to meet all MAJCOM munitions positioning objectives.

15.5.1.1. HQ AFMC, in coordination with all MAJCOMs, will be responsible for monitoring and tracking this transportation funding process for all Air Force munitions movements. This will include CONUS and OCONUS port handling, surface and air expenditures.

15.5.2. The NCAA provides munitions requirements while the TAMP and DLAR provide allocations and positioning objectives.

15.5.2.1. Each MAJCOM determines which munitions to request for call forward and retrograde based on their allocations and theater operational plans.

15.5.2.2. Positioning objectives are determined during the TAMP and GAP conferences based on MAJCOM desires and Air Force objectives as determined by Air Staff.

15.5.2.3. A prioritized munitions movement plan developed during the GAP Conference will provide the basis for forecasting and allocating second destination funding to move munitions.

15.5.3. The GAP Conference is the Air Force forum for development and prioritization of all munitions movements worldwide.

15.5.3.1. The GAP develops a MMP, which is the baseline document recognized as the source for PACER AMMO munitions movements.

15.5.3.2. The MMP will be developed from the MAJCOM positioning objectives based on stockpile status and storage space availability.

15.5.3.3. Each of the moves in the MMP not categorized as a "Must Pay" will be priority ranked by the GAP steering committee, co-chaired by HQ USAF/XOR and ILS.

15.5.4. In order for PACER AMMO to achieve the desired results, MAJCOMs and Air Component Commands must be active participants and HQ USAF must make final movement determinations.

Figure 15.1. Example (Unclassified) of STAMP/STRAPP Quarterly Status Report.

SECRET (Unclassified Sample)

FROM:

TO: (Use addresses listed in sections 15 and 16)

INFO: (Use addresses listed in sections 15 and 16)

SECRET (Unclassified Sample)

SUBJ: (U) RCS: HAF-ILM (M&D)-9459 STAMP/STRAPP STATUS REPORT.

1. (S) PREPARED AS OF (Date message was prepared) (Report NLT the 1st of each quarter).

PART I, STAMP STATUS:

UTC	NOUN	REQ	AVAIL	REMARKS
HHZBA	MK-82 CON	10	10	
HHZBB	MK-82 AIR	12	12	
HHZBC	MK-84 AIR	20	18	SHORT: 48EA MK-82 BOMBS, FK230662390002.

Part II, STRAPP STATUS:

UTC	NOUN	REQ	AVAIL	REMARKS
HHX01	F-15 RAP	6	6	
HHX02	F-16 RAP	6	5	6EA LAU-117(V)1/A AWP X8610M62430010
HHX03	F-16 TANKS	9	6	SHORT: 32EA 370 GAL TANKS FD482963490001

2. (U) STAMP COMPLETE ROUNDS FOR HQ USAF/ILMW:

[NOTE: Report complete rounds as listed in the annual validation message for each UTC package. Use the following weapons groups to report.]

	MEDINA	HILL
A. PRECISION GUIDED		
(1) GBU-24A/B	55	0
B. ANTI-ARMOR		
(1) AGM-65D	250	0
C. SEAD		
(1) AGM-88C	120	0
D. CLUSTER		
(1) CBU-87 CEM	560	300
E. GENERAL PURPOSE		
(1) MK-84 AIR	285	212
F. AIR TO AIR		
(1) AIM-9M	120	0
G. CHAFF/FLARES		
(1) RR-170 CHAFF	120,000	65,000
H. AMMUNITION/ROCKETS		
(1) 20MM PGU-28	50,000	50,000

DECLASS ON (10 years from message date, Example 10 Jan 2009)

OPR HQ USAF/XO

DRV FROM NCAA _____ DATE

SECRET (Unclassified Sample)

Figure 15.2. Example (Unclassified) of STAMP/STRAPP Contingency Status Report.

SECRET (Unclassified Sample)
FROM:
TO: (Use addresses listed in sections 15 and 16)
INFO: (Use addresses listed in sections 15 and 16)
SECRET (Unclassified Sample)
SUBJ: (U) RCS: HAF-ILM (M&D)-9459, STAMP/STRAPP STATUS REPORT, (Month, Year)
1. PREPARED AS OF (Date message was prepared) (Report at least once daily).
(S) PART I, STAMP STATUS:

UTC	NOUN	AVAIL	TASKED	DEPLOYED	REMARKS
HHZBA	MK-82 CON	10	0		
HHZBB	MK-82 AIR	12	5	0	5 UTC AWAITINGAIRLIFT
HHZBC	MK-84 AIR	25	6	3	3 UTC AWAITING AIRLIFT, 3 UTC DEPARTED MISSION # 413266,413378, 413388
HHZCA	CBU-87	20	20	18	18 UTC ARRIVED FINAL DEST

(S) Part II, STRAPP STATUS:

UTC	NOUN	AVAIL	TASKED	DEPLOYED	REMARKS
HHX01	F-15 RAP	6	6	0	
HHX02	F-16 RAP	5	2	0	AWAITING AIRLIFT
HHX03	F-16 TANKS	6	3	3	3 UTC DEPARTED MISSION # 413255, 413377, 413395

2. (U) STAMP COMPLETE ROUNDS FOR HQ USAF/ILMW:
[NOTE: Report complete rounds as listed in the annual validation message for each UTC package. Use the following weapons groups to report.]

	MEDINA	HILL
A. PRECISION GUIDED		
(1) GBU-24A/B	55	0
B. ANTI-ARMOR		
(1) AGM-65D	250	0
C. SEAD		
(1) AGM-88C	120	0
D. CLUSTER		
(1) CBU-87 CEM	0	300
E. GENERAL PURPOSE		
(1) MK-84 AIR	0	212
F. AIR TO AIR		
(1) AIM-9M	120	0
G. CHAFF/FLARES		
(1) RR-170 CHAFF	120,000	65,000
H. AMMUNITION/ROCKETS		
(1) 20MM PGU-28	0	50,000

3. (U) POC IS TSGT SUE AMMO, DSN 461-0000

DECLASS ON (10 years from message date, Example 10 Jan 2009)
OPR HQ USAF/XO
DRV FROM NCAA _____ DATE
SECRET (Unclassified Sample)

15.5.4.1. Transportation requirements funding must be identified and resources allocated to support munitions movements from point of origin to final destination.

15.5.4.2. PACER AMMO will provide the focus to justify and distribute funding to pre-position the worldwide munitions stockpile in accordance with the GAP MMP.

15.5.4.3. The MMP will be cost out by HQ AFMC and used as the basis for the SDT requirement submission for munitions moves within the Air Force. When SDT funds are released, the MAJCOMs will be notified of the level of approved MMP moves.

15.5.5. The types of munitions movements, their definitions, project codes and categories are listed in **Table 19.1.**.

15.5.5.1. Programmed movements are categorized as “Must Pay” or “Prioritized”.

15.5.5.1.1. “Must Pay” movements are mandatory and critical to the daily operations.

15.5.5.1.2. “Prioritized” moves are funded to the maximum extent possible within available resources.

15.5.5.2. “Approval Required” category is for moves not identified during the GAP, which must be approved by HQ USAF/XOR. Once approved, movements will fall into the “must pay” or “prioritized” categories.

15.5.5.3. The official project codes listed in **Table 27.1.** must be included on all munitions shipment documents.

Chapter 16

DOCUMENT CONTROL

16.1. Document Control - General Information.

16.1.1. Control of documents is the key to accountability because it provides the audit trail. It encompasses the management of accountable and auditable documents from the time of receipt to final disposition.

16.1.2. Accountable and auditable documents are those affecting asset balances. They include:

16.1.2.1. Issues.

16.1.2.2. Expenditures.

16.1.2.3. Turn-ins.

16.1.2.4. Shipments.

16.1.2.5. Receipts.

16.1.2.6. Inventory Adjustments.

16.1.2.7. Identity Changes.

16.1.2.8. ADRs.

16.1.2.9. Reverse Posts.

16.1.2.10. ISCO5A Documentation (Prior to use, contact MAJCOM munitions staff for approval).

16.1.3. Lot number changes and condition code changes do not require signatures or filing, and will be cleared from the Document Control Report (ISEO2A) without documents.

16.1.4. The MASO will publish an operating instruction defining document flow to include:

16.1.4.1. Roles and responsibilities for processing documents within each element.

16.1.4.2. Routing sequence of specific documents.

16.1.4.3. Maximum processing time at each element.

16.1.4.4. Delinquent document review procedures (recommended forum for review is weekly scheduling meeting).

16.1.5. The MASO will designate, by letter; personnel authorized access to the document control files and records.

16.2. Annotating Documents.

16.2.1. Munitions personnel will not change or correct omissions on documents. Documents must be typed or legibly printed in blue or black ink: Return illegible, incomplete, or improperly prepared documents to the originator.

16.2.2. Originator will reaccomplish documents or make corrections using a single non-obliterating line. The certifying official must initial changes to issues and expenditures. The individual turning in the assets will initial corrections on turn-in documents.

16.2.3. When documents are produced or received they will be stamped as follows:

16.2.3.1. Stamp or mark (in red) “Classified Item” on all documentation associated with accountability of classified items. Original and copies will be stamped. The purpose is to alert personnel of the classification of the assets they are handling.

16.2.3.2. Stamp original (copy 1) documents with “Document Control”. Stamps will not obliterate information required on documents.

16.3. Monitoring Documents.

16.3.1. Document Control Report (ISEO2A) will be used in lieu of hard copy suspense files. CAS-D will maintain hard copy suspense files for all auditable documents.

16.3.2. Review ISEO2A daily and annotate current status and location of each document.

16.4. Delinquent Documents.

16.4.1. Delinquent document criteria is as follows:

16.4.1.1. Issues, expenditures, receipts, turn-ins, identity changes and reverse posts will be returned to Document Control within 10 workdays.

16.4.1.2. Shipments, ADRs and inventory adjustments will be returned to Document Control within 20 days.

16.4.1.3. Documents created during AFRC or ANG unit training assembly (UTA) days are delinquent 3 workdays after the next UTA.

16.4.1.4. Produce a delinquent document listing weekly for documented review by the MASO. Maintain only the current week’s listing (ISE02A option 1 may be used).

16.5. Quality Control.

16.5.1. The MASO will designate in writing Munitions Operations personnel to perform final quality control of accountable documents. Use of quality control stamp is optional.

16.5.2. Designated personnel will quality control all accountable documents using **Table 16.1.**.

16.5.2.1. In addition to the quality control (QC) checks listed in this table, all documentation will be checked for correct NSN, quantity, unit of issue, document number, lot/serial number, and condition code. Also, check valid signatures against AF Form 68, and other letters of authorization.

16.5.2.2. These documents are filed in document number sequence by fiscal year (1 October - 30 September).

16.5.3. Return illegible or incomplete documents to the responsible activity for correction.

16.5.4. When documents are filed they will be removed from the Print Document Control (ISE01A).

16.6. Control of Documents.

16.6.1. Use AF Form 614, **Charge out Record** or **AF Form 1208, Change Out Record - EAM Card,** to track documents removed from file.

Table 16.1. Guide for Quality Control (QC) Edits.

Type of Document	Inspector Sign/Date	Inchecker Sign/Date	Receiver Sign/Date	Applicable Notes
Issues: AF Form 2005/DD Form 1150				1,2,8,9,10,15,17,21
Issue Documents	X		X	3,15,18,22
Expenditure				1,2,10,11,12,15,20,21
Turn-in	X	X		10,12,13,15,20
Receipt	X	X		3,4,7,15,20,22
Shipment	X		X	3,5,15,19,22
Shipment to DRMO/EOD	X		X	3,6,14,15,19
Local Disposal	X		X	3,14,15,19
Identity Change	X			15,16
ADR	X			15,21

NOTES:

1. Commander or designated representative must sign and date in block A (AF Form 2005)/ block 10 (DD Form 1150).
2. The MASO must sign and date block B (AF Form 2005)/block 2 (DD Form 1150).
3. If an item is classified, the person receiving the property must be authorized in writing to receipt for classified property.
4. When the received quantity is different from the shipped quantity the inchecker will circle the quantity on document, enter new quantity and initial. Check the transaction quantity to be sure the correct quantity received was processed.
5. Munitions shipments using transportation channels will have the TMO representative's signature in block 22 and date in block 23. On sensitive items or higher the TMO representative's need only sign the receipt for material portion on bottom of DD Form 1348-1A or DD Form 1348-1. If munitions personnel transport munitions, the receiving activity will sign in place of TMO.
6. The DRMO/EOD representative will sign block 22 and date block 23 of the DD Form 1348-1A or blocks 13, 14, and 15 of DD Form 1348-1.
7. On DD Form 1348-1A the inchecker will sign in block 22 and date in block 23. On DD Form 1348-1 the inchecker will sign and date in block 7.
8. Custodian must enter the date and time munitions are required in block G (AF Form 2005)/ block 6 (DD Form 1150).
9. Place reason for use, authorizing directive, in block E (AF Form 2005)/block 3 (DD Form 1150).
10. Place nomenclature in block J (AF Form 2005)/block 4a (DD Form 1150).

11. Place reason for expenditure, authorizing directive, signature of custody account custodian in block E of AF Form 2005.
12. Lot/serial number and condition code from the original issue document will be entered in block D.
13. Reason for turn-in, applicable item T.O., and actual condition code of the item in Block E of the AF Form 2005.
14. The disposition and witnessing official will sign and date above the respective statements, "Demilitarization/Disposition Official" and "Witnessing Official".
15. If an item is classified, the words "Classified Item" will be stamped or hand scribed in red ink on all source document copies.
16. The inspector will annotate the reason for identity change, sign, and date the document.
17. Block C (AF Form 2005)/block 7 (DD Form 1150) will contain the grounding date of the aircraft for Time Change assets.
18. Printed name, signature and date received by the requesting organization.
19. SHP/A5Js will have ADR number cross-referenced on DD Form 1348-1A, if applicable.
20. Annotate transaction number on the document.
21. The MASO must sign and date.
22. For assets released to agencies or individuals outside the USAF, appropriate documents will be annotated as required in paragraph 12.6.23. For assets received without proper shipping documentation, recreated shipping documents will be stamped/annotated with "Shipping documentation not received".

16.6.2. Retain documents and listings

16.6.3. The MASO will make every effort to locate missing or lost documents.

16.6.3.1. If the original (copy 1) is lost and a copy can be obtained, the MASO will certify it as a "true copy" and file. The document must have all required signatures.

16.6.3.2. If CAS documents are lost or destroyed regenerate the document, obtain all signatures, and the MASO will certify it as a "true copy". MASOs may require justification for regenerated documents.

16.6.3.3. If AF Form 2005, **Issue/Turn-in Request**; DD Form 1150, **Request for Issue or Turn-in**; or DD Form 1348-1 (receipts only) are lost or destroyed, contact the originator for reaccomplishment.

16.6.3.4. Contact MAJCOM munitions staff for guidance in circumstances not covered above.

16.6.4. Document Control personnel file all authorization and delegation of authority letters and correspondence required by the munitions account.

16.6.5. As a minimum, the MASO will maintain the following correspondence/letters:

16.6.5.1. AF Form 68 with original signatures.

16.6.5.2. MASO appointment package (Certificate of Transfer, approved waivers, and documented account review).

16.6.5.3. Personnel authorized to dispose of munitions (normally EOD personnel).

16.6.5.4. Personnel authorized to demilitarize munitions (normally 2W0 personnel).

16.6.5.5. Personnel authorized to receipt for munitions and explosive items, including classified items, which are being released to the transportation movement officer for shipment.

16.6.5.6. Munitions Inspector appointment letters.

16.6.5.7. Personnel authorized to receipt for munitions at the Thermal Treatment Unit (TTU).

16.7. Reverse Post (RVP) Procedures.

16.7.1. A list of documents that can be reverse posted (RVP) is contained in AFCSM 21-824 Vol 2, Section 15. Before processing RVPs, the MASO must sign a memorandum containing a brief explanation of the circumstances.

16.7.1.1. This memorandum will be attached and filed with each RVP.

16.7.1.2. MASOs are not required to sign the RVP document.

16.7.2. The RVP document and the erroneous source document will be stapled together and cross-referenced to other affected document numbers.

16.8. Paperwork Only Transactions.

16.8.1. Paperwork only transactions are authorized when assets have departed station. A paperwork only turn-in and shipment will be processed to transfer accountability from the losing MASO to the gaining MASO (i.e., deployments or transient aircraft departure).

16.8.2. Paperwork transactions will not be used to adjust accountable balances.

16.8.3. The MASO will approve all paperwork only transactions prior to processing.

Chapter 17

PREPARATION AND USE OF AF FORM 68, MUNITIONS AUTHORIZATION RECORD

17.1. Purpose.

17.1.1. Used to establish custody and consumption accounts.

17.1.2. For custody accounts, used to appoint primary and alternate custodians.

17.1.3. Provides for verification/identification of personnel to receipt or certify issues and expenditures for munitions.

17.2. Responsibilities.

17.2.1. The Organizational commander is responsible for munitions received by their organization and signs the AF Form 68.

17.2.1.1. In the absence of the commander, they may delegate authority in writing (i.e., letter or G series orders) to sign the AF Form 68. A copy of the document delegating their authority must be furnished to the MASO. Note: Delegation of authority does not release the commander from pecuniary liability.

17.2.1.2. Commanders may elect to personally certify and receipt for munitions, or delegate within their authority in parts II and III of the AF Form 68.

17.2.1.2.1. Although part II of the AF Form 68 may state “all personnel are in the position of Section Chief or higher”, commanders will only delegate authority to certify issue and expenditure documents to noncommissioned officer or higher (or equivalent).

17.2.1.2.2. For custody accounts, part III will be used to identify primary/alternate custodians. Indicate primary and alternate custodians by entering a “P” or “A” beside their name. Otherwise, leave blank.

17.2.1.2.3. No one person will be authorized to perform duties in both parts II and III.

17.2.1.2.4. Active duty and Reserve unit personnel may be combined on the same AF Form 68 as long as they are from the same functional area to include active and reserve associate units.

17.2.2. The MASO will brief all personnel on the AF Form 68 on their responsibilities.

17.2.2.1. Briefing will be documented, and filed in account folders. Form letters may be used.

17.2.2.2. AF Form 68 will not be approved until all personnel on the form have been briefed.

17.2.2.3. MASOs will review AF Form 68 for completeness and accuracy and either approves/disapproves. If approved, the MASO will enter the approval date in the date block on the front of the form. Individuals cannot be added to the AF Form 68 once approved by the MASO.

17.2.2.4. When the appointing authority notifies the MASO that an individual’s authorization is withdrawn, the MASO deletes the individual’s authority by entering a single non-obliterating line through their name on the AF Form 68. This notification can be made verbally. The MASO must initial and date each deletion. Ensure all users (inspection/storage elements) of the AF Form 68 are immediately notified of deletions.

17.2.2.4.1. When a primary account custodian is removed from the AF Form 68 the commander assumes primary custodial responsibilities for the account.

17.3. Procedures.

17.3.1. Distribute copies of AF Form 68s to required agencies.

17.3.2. AF Form 68 will be reaccomplished annually or when the primary custodian or commander change. MAJCOMs may authorize annual revalidation of the form in lieu of reaccomplishment.

Chapter 18

OFF-LINE PROCESSING (POST-POST)

18.1. General Information.

18.1.1. Post-Post operations are used as an interim measure when CAS-B operations are disrupted. Post-post operations allow continued support during periods of computer downtime. Transition to CAS-D operations during extended downtime as defined by the MAJCOM.

18.2. Post-Post Operational Instruction Requirements.

18.2.1. The MASO will develop locally written post-post procedures. As a minimum, these procedures will include:

18.2.1.1. Specific examples and instructions on processing all transactions in a post-post environment.

18.2.1.2. Identification of a central document control collection point.

18.2.1.3. Establishment of a recovery team, consisting of the Host System Site Administrator, Munitions Operations, Inspection, Storage, and scheduling personnel.

18.2.1.4. Systematic process for recovery of information in the CAS-B system after normal operations are resumed.

18.3. Documentation Requirements.

18.3.1. Establish a Post-Post document control log to assign document numbers.

18.3.2. CAS-B listings necessary to support post-post processing will be run on a recurring basis. The required listings and applicable frequency (additional listings and local products may be added to this list) are:

18.3.2.1. Structure Asset Report (Weekly).

18.3.2.2. Asset Balance Report (Weekly).

18.3.2.3. Asset Balance Report-Periodic - Location (Weekly).

18.3.2.4. Base Information File (BIF) Report (Semi-annually).

18.3.2.5. Asset Levels Listing (Quarterly).

Chapter 19

REQUISITIONING

19.1. Requisitioning System.

19.1.1. The requisitioning system provides the method to obtain required munitions.

19.2. Submitting Requisitions. Units submit requisitions in accordance with command guidance using AFCSM 21-824 Vol 2. Munitions Operations will work in conjunction with the Inspection and Storage Elements to ensure sufficient storage space exists and T.O. data is available prior to requisitioning assets.

19.2.1. The MASO must not exceed approved stock levels (allocations) when requisitioning.

19.2.1.1. Approved stock levels may be exceeded when requisitioning items in QUP or quantity per shipping container (QSC).

19.2.1.2. To ensure assets will be available for use at the beginning of the Fiscal Year:

19.2.1.2.1. OCONUS units will requisition assets per MAJCOM guidance.

19.2.1.2.2. CONUS units may based upon asset availability (as determined by Item Manager and MAJCOM), call forward up to 25% of near year Short Supply allocations.

19.2.1.2.3. Final call forward levels will be determined at the GAP conference during completion of Positioning Objective and recorded in the Final DLAR. The Positioning Objective does not include projected expenditures or pending deliveries. Asset availability is defined as assets currently in the AF inventory. It does not include pending deliveries or projected expenditures.

19.2.2. The MASO must ensure the appropriate Project Code and requisitioning priorities are used.

19.2.2.1. Project codes are identified in **Table 27.1.**.

19.2.2.2. Requisitioning priorities are established in **Table 19.1.**.

19.2.3. Requisitions submitted to support the annual DLAR will identify the appropriate fiscal year for which the DLAR applies.

19.2.3.1. Units will include “FYXX rqmt” in the “Comments” field of the requisition to indicate the correct fiscal year, i.e. “FY05rqmt”.

19.2.4. MICAP requisitions (Required Delivery Date (RDD) 999) are not authorized, except when the lack of an item causes grounding of a MICAP reportable end item identified by the standard reporting designator (SRD) found in T.O. 00-20-2.

19.2.4.1. When CAS-B is unavailable, units will submit Military Standard Requisitioning and Issue Procedures (MILSTRIP) requisitions by message in the following format:

19.2.4.1.1. cc 1-3: Document Identifier Code, A0A for CONUS, A05 for OCONUS.

19.2.4.1.2. cc 4-6: Routing Identifier, FG5 for conventional munitions requisitions.

19.2.4.1.3. cc 7: Media Status Code, “S” provides all status.

Table 19.1. Requisitioning Priorities

Requisitioning Priority Designator	**01-03 Note 1, 2**	**04-08 Note 3**	**09-15 Note 4**	
Cycle Segments	**Calendar Days**			**Responsible Agency**
1 - Requisition	1	1	2	Requisitioner
2 - Passing Action	1	1	2	Initial Source
3 - Inventory Control Point (ICP) (Available redistribution order transmitted to Depot)	1	1	3	Ultimate Source
4 - Depot Process (Date items made available to TMO)	1	2	8	Storage Activity
5 - Transportation (date item made avail until date of receipt)	3	6	13	Transportation Activity
The Requisitioning priority then relates into a transportation priority	TP-1	TP-2	TP-3	Transportation Priority

NOTES:

1. Priority 01. Is authorized for wartime use only as directed by the ACP, TACP or RACP. Translates to transportation priority of TP-1.
2. Priority 02-03. Material will arrive at the receiving facility within 7 days from date of requisition for CONUS and 11-12 days of OCONUS. Translates to transportation priority TP-1
3. Priority 04-08. Material will arrive at the receiving facility within 11 days from date of requisition for CONUS and 15-16 days for OCONUS. Translates to transportation priority TP-2.
4. Priority 09-15. Material will arrive at the receiving facility within 28 days from date of requisition for CONUS and 67-82 days for OCONUS. Translates to transportation priority TP-3

19.2.4.1.4. cc 8-22: National Stock Number.

19.2.4.1.5. cc 23-24: Unit of Issue.

19.2.4.1.6. cc 25-29: Quantity.

19.2.4.1.7. cc 30-35: Requester’s SRAN/DoDAAC.

19.2.4.1.8. cc 36-39: Julian date of requisition.

19.2.4.1.9. cc 40-43: Document number of requisition.

19.2.4.1.10. cc 44: Demand Code, “N”.

19.2.4.1.11. cc 45-50: Supplementary address. If requisitioning for delivery to another base, enter the SRAN/DoDAAC you want the assets shipped to. Otherwise, leave blank.

19.2.4.1.12. cc 51: Signal Code “D”.

19.2.4.1.13. cc 55-56: System designator.

19.2.4.1.14. cc 57-59: Project code - enter applicable project code.

19.2.4.1.15. cc 60-61: Priority.

19.2.4.1.16. cc 62-64: Required Delivery Date (RDD).

19.2.4.1.17. cc 65-66: Advice code. Use “2B” to request only the NSN listed in cc 8-22 (no substitutes).

19.2.4.1.18. cc 67-80: “Comments” field.

19.2.4.1.19. The following is an example requisition in MILSTRIP format:

A05/FG5/S/1420015451603JB/EA/00100/FV5000/8320/0005/N/FV5294/D/***/01

726/02/355/2B/TAMP

NOTE: Asterisks represent blank fields.

19.2.5. Forward an informational copy of the MILSTRIP requisition to MAJCOM.

19.3. Procedures. CAS-B units will use Requisition Status Report (ISI05A) to monitor requisitions. CAS-D users are required to monitor requisitions using locally developed products.

19.3.1. Work with Munitions Scheduler weekly to reconcile outstanding requisitions AWPs using the ISI05A and IS535A.

19.3.2. Follow-up via message to the last known source of supply on requisitions when the status will not meet the RDD. The message will include all information from original requisition. Follow-up message will include MAJCOM as an informational addressee.

19.3.2.1. The schedules for the follow-up will be:

19.3.2.1.1. Priorities 01-08 will be 4 days after the date requisitioned.

19.3.2.1.2. Priorities 09-15 will be 8 days after the date requisitioned.

19.4. Requisitioning Air Intercept Missiles.

19.4.1. Do not requisition your organization's initial AIM requirement. Allocations are controlled by HQ USAF, published in the TAMP document, and automatically distributed to installations by WR-ALC/LKG in coordination with MAJCOMs. For additional guidance see **Chapter 28**.

Chapter 20

RECEIVING MUNITIONS

20.1. Verifying Documentation.

20.1.1. Personnel authorized to receipt for munitions will in-check assets. In-checking consists of comparing shipping documents with outer container markings (identity & quantity).

20.1.1.1. When the received quantity, lot number or NSN is different from the shipping document, the in-checker will circle the erroneous information on the document, enter correct information and initial.

20.2. Receipt Discrepancies.

20.2.1. Munitions received without sufficient documentation constitute a potential safety hazard to both facilities and personnel and will be processed as follows:

20.2.1.1. Contact the shipping activity and request information/documentation be provided immediately.

20.2.1.2. After all information is validated, prepare an off-line shipping document, DD Form 1348-1, and process the receipt. Stamp/annotate the DD Form 1348-1, “Shipping documentation not received”.

20.2.1.3. Prepare and submit a SF Form 364, **Report of Discrepancy (ROD)**, to the appropriate activity with an info copy to the MAJCOM.

20.3. Procedures.

20.3.1. Receive assets on accountable records, within 5 workdays.

20.3.1.1. If the Receiving Inspection (RI) is accomplished prior to receiving assets on accountable records, the condition code will be based on the results of the RI.

20.3.1.2. If the RI is not performed within 5 workdays, use the condition code stated on the receipt document.

20.3.2. All Category I and II AA&E, and classified AA&E shipments will be checked immediately upon receipt to ensure that the seals are intact and for any signs of damage or tampering. If there are any signs of damage or tampering there must be an immediate inventory to verify quantities received and to determine extent of any damage or tampering.

20.3.2.1. If the seals are intact, quantity verification must take place on the next work day.

Chapter 21

INVENTORY PROCEDURES

21.1. Purpose .

21.1.1. Inventories are required to validate accuracy of accountable records by reconciling NSN, quantity, lot number, condition code, and location.

21.1.2. The following Stock Record Account inventories are performed:

21.1.2.1. Semi-annual/Perpetual Inventory.

21.1.2.2. Monthly 10% Inventory.

21.1.2.3. Change of MASO Inventory.

21.1.2.4. Semi-annual Unserviceable Inventory.

21.1.3. The following Custody inventories are performed:

21.1.3.1. Annual MASO Custody Account Inventory.

21.1.3.2. Quarterly Custody Account Inventory.

21.1.3.3. Primary Custodian Change Inventory.

21.1.4. In addition to the inventories listed above, a Special inventory of selected items may be directed by the MASO or higher headquarters.

21.2. Common Inventory Procedures.

21.2.1. Publish local operating instruction containing the following minimum inventory procedures:

21.2.1.1. Roles and responsibilities.

21.2.1.2. Inventory methods.

21.2.1.3. Inventory team composition.

21.2.1.4. Reconciliation and recount procedures.

21.2.2. Inventories will be performed utilizing either CAS generated or manual inventory worksheets and the account will be frozen before or after the physical count. Logistics Marking and Reading Symbology (LOGMARS) can be used to facilitate the inventory process. In addition to the guidance provided by this instruction, CAS units may use AFCSM 21-824.

21.2.3. The MASO ensures munitions users are aware of the inventory dates. Publish Semi-annual inventory dates through base media. Only process emergency requests, submitted in writing, approved by the Group commander or equivalent. This minimizes transactions against the account during the inventory.

21.2.4. Inventories will be conducted and reconciled within 30 days of inventory start date.

21.2.5. Properly secured containers, including “LITE” boxes, do not need to be opened unless:

21.2.5.1. Evidence of pilferage or forced entry exists.

21.2.5.2. Quantity and other identification data on the container appear illegible.

21.2.6. Sealed Structure Inventory Procedures. The MASO verifies the inventory when initially storing munitions in sealed structures, to include Intermodal containers. After the inventory, the MASO will apply serial-numbered seals to the doors of structures.

21.2.6.1. Annotate count sheets with: "Building number _____ is sealed with seal number _____. This seal was applied on _____(date) and the building contents are reflected on the attached inventory count sheet."

21.2.6.2. Sealed structures need not be inventoried again until:

21.2.6.2.1. The MASO changes.

21.2.6.2.2. Issues are made.

21.2.6.2.3. Items due periodic inspection.

21.2.6.3. Retain documentation until next physical inventory is performed.

21.3. Stock Record Account Inventories.

21.3.1. Semi-annual/Perpetual Stock Record Account Inventory. The MASO conducts a wall-to-wall inventory of all munitions and explosives maintained on the stock record account (includes unserviceable assets but excludes custody accounts and courtesy storage). The inventory must be started and finished in the months of March and September. MAJCOMs may:

21.3.1.1. Authorize perpetual inventories in lieu of semi-annual.

21.3.1.2. Waive required inventory months.

21.3.1.3. Allow munitions stored at collocated operating bases and alternate storage locations or sites to be inventoried annually.

21.3.2. Semi-annual Unserviceable Inventory. This inventory encompasses all unserviceable condition codes as defined by T.O. 11A-1-10. Perform the inventory in June and December.

21.3.2.1. Work with Munitions Scheduler to reconcile outstanding AWM/AWP with the inventory.

21.3.2.2. ADRs will be reconciled during this inventory.

21.3.3. Monthly 10% Inventory. The purpose of this inventory is to identify negative trends between semi-annual stock record account inventories. Conduct a 10-percent monthly inventory of the base conventional munitions account (excludes unserviceable assets, custody accounts and courtesy storage), except during the months you conduct a semiannual inventory (March and September). An inventory schedule will be established to ensure all NSNs are inventoried during the 10-month period.

21.3.4. Change of MASO Inventory. When a change in the MASO occurs, the outgoing and incoming accountable officers jointly conduct a complete physical inventory of the stock record account.

21.3.4.1. Waiver requests for this inventory will be submitted to MAJCOM.

21.3.5. If discrepancies exist after the first count, conduct a recount to include a check of the following areas:

21.3.5.1. The inspection/maintenance bay.

21.3.5.2. The transportation holding area (if applicable).

21.3.5.3. The ADR/unserviceable bay.

21.3.5.4. Courtesy storage areas.

21.3.5.5. Any other applicable holding/storage areas not noted above.

21.3.6. If discrepancies still exist after performing the above actions, a second recount will be conducted with the addition of verifying “LITE” box contents.

21.3.7. If discrepancies exist after the second recount, perform the following procedures:

21.3.7.1. Process a transaction history on the affected NSN back to the date of last inventory (DOLI).

21.3.7.2. Collect all documents currently out of file and movement control forms for affected NSN/lot number.

21.3.7.3. Compare source/input documentation against all transactions reflected on the transaction history beginning from the DOLI.

21.3.7.4. Compare all movement control forms against transaction history.

21.3.7.5. Research all custody accounts with the same NSN.

21.3.7.6. Verify assets are not pending transportation.

21.3.8. If the discrepancy still can’t be resolved, the MASO must initiate inventory adjustment procedures.

21.3.9. Results of the stock record account inventories, the findings and corrective actions, will be documented in writing and briefed to the Munitions Flight Chief, Maintenance Supervisor, and commander.

21.3.9.1. Inventory Accuracy Report, IS500A will be produced during the Semi-annual stock record account or Change of MASO inventories and filed with the inventory package.

21.4. Custody Account Inventories .

21.4.1. Annual MASO Custody Account Inventory. Once every 12 months, the MASO will inventory each custody account.

21.4.1.1. They will document the results of the inventory and brief the custodian and commander on the findings and required corrective actions.

21.4.1.2. The organizational commander, custodian and MASO will sign copies of the current annual inventory listing and documented findings.

21.4.1.3. This inventory may be conducted concurrent with the Quarterly Custodian Inventory.

21.4.1.4. During this inventory, the MASO will ensure custodians:

21.4.1.4.1. Comply with established procedures.

21.4.1.4.2. Maintain accurate custody account records.

21.4.1.4.3. Ensure inventory control integrity.

21.4.1.4.4. Follow proper storage procedures.

21.4.1.4.5. Adhere to safety criteria.

21.4.1.5. The current reconciled inventory listing and findings will be maintained until superseded by the next annual MASO Custody Account inventory.

21.4.1.6. If the MASO has difficulty conducting off-base custody account inventories, they will request MAJCOM waiver.

21.4.1.6.1. If approved, the MASO requests the commander of the off-base custody account appoint disinterested individuals (at least two, one of whom must be a master sergeant equivalent or above) to perform the inventory.

21.4.1.6.1.1. AFSPC ICBM units with munitions stored at remote launch facilities may appoint the ICBM Maintenance Team Chief (regardless of rank) and one team member to perform the inventory.

21.4.1.6.2. The MASO will provide the most current custody records/listings, associated forms and letters along with instructions (including procedures for relieving officers of accountability and resolving discrepancies), to the off-base commander to ensure timely and accurate completion.

21.4.2. Quarterly Custodian Inventory. The custodian conducts a physical inventory of all munitions issued to their custody account once every 3 months. Copies of the current inventory listing will be signed by the organizational commander and custodian and reviewed and signed by the MASO. Copies will be maintained in the custodian's and MASO's custody jacket file.

21.4.2.1. The current reconciled inventory will be maintained until superseded by the next Quarterly Custodian inventory.

21.4.2.2. Discrepancies discovered during the inventory will be immediately brought to the MASO's attention.

21.4.2.3. AFSPC ICBM launch facility accounts are exempt from quarterly inventory requirements.

21.4.2.3.1. The inventory will be performed during the annual facility periodic maintenance inspection of the launch facility.

21.4.3. Primary Custodian Change Inventory. When a change in the primary custodian occurs, the departing custodian and the newly appointed custodian will perform a complete physical inventory of the custody account. The inventory will be conducted, reconciled, and signed by the commander and the departing and newly appointed custodian.

21.4.3.1. AFSPC ICBM launch facility accounts are exempt from the physical inventory requirements.

21.4.3.1.1. The departing custodian and the newly appointed custodian will conduct a paperwork inventory of the account using the inventory count sheets from the annual facility periodic maintenance inspection prior to transfer of the account.

21.4.3.2. This inventory will be filed as the current Quarterly Custodian inventory in both the custodian's and MASO's jacket file.

21.4.3.3. Discrepancies discovered during the inventory will be immediately brought to the MASO's attention.

21.5. Special Inventories. Conduct special inventories as directed by the MASO or higher headquarters.

21.6. Stock Discrepancies.

21.6.1. Discrepancies between accountable records and on-hand balances may be discovered during an inventory or while accomplishing day-to-day operations. In either case, these discrepancies must be thoroughly investigated to determine the cause.

21.6.1.1. If the discrepancy involves only lot numbers or condition codes, the Inspection element will verify the correct information, and an AFTO Form 102 or CAS equivalent will be used as the source document for correcting accountable records.

21.6.1.2. If the discrepancy involves loss of munitions or explosives, search base stock, munitions operating locations, and custody accounts.

21.6.1.2.1. If the missing item(s) are not located during the search, review the transaction history to determine if a transaction error caused the out-of-balance condition. Transaction histories can also be useful in suggesting alternative locations to search. For example:

21.6.1.2.2. If a shipment was processed recently, you would check with the receiving unit to determine if they were shipped an overage.

21.6.1.2.3. If a turn-in was processed recently, you would check to ensure assets are not in the inspection bay.

21.6.1.3. If the cause of the shortage is found to be an erroneous transaction, the transaction will be reverse posted if possible.

21.6.1.4. If the transaction cannot be reverse posted, process an inventory adjustment document and attach the transaction history and a copy of the erroneous document as supporting documentation.

21.6.1.5. If the assets are not located during the search, and the loss is not a result of an erroneous transaction, you must determine if the loss meets the reporting criteria outlined in DoD 5100.76-M, Appendix F, page F-3. If assets meet this criteria, submit the RCS HAF-SP (AR)-7101, **Reporting of Significant Arms and Non-nuclear Munitions Losses and Incidents** IAW AFI 31-101.

21.6.2. Regardless of whether or not the loss meets the criteria in paragraph **21.6.1.5.**, you must submit a ROS if negligence, willful misconduct or deliberate unauthorized use of munitions is suspected or when the loss involves the following controlled inventory item codes (CIIC):

21.6.2.1. Category 1 - Very high risk.

21.6.2.2. Category 2 - High risk.

21.6.2.3. Category C (confidential), 6 or 8.

21.6.2.4. Category S (secret) or 5.

21.6.2.5. Category T - Top Secret.

21.6.3. In addition to the mandatory criteria above, you must submit a ROS for all adjustments to custody account balances unless the adjustment:

21.6.3.1. Is a one-time loss of category 3 (moderate risk) munitions of 20 or fewer items valued at $200 or less total.

21.6.3.2. Is a one-time loss of a category 4 and 7 (low risk) or U (unclassified) munitions of 200 or fewer items valued at $250 or less (total).

21.6.3.3. As used in the two instances above, "one-time" loss means each incident will be treated (reported and resolved) individually. In other words, you cannot group months or weeks' worth of losses and justify them under a single document. On the other hand, "one-time loss" does not mean that you will automatically initiate a ROS the second time an account loses munitions. Commanders and munitions managers alike must evaluate each incident/loss within the overall context of asset accountability. A pattern of irresponsibility or lack of adequate inventory controls is grounds for either freezing the custody account or initiating a ROS.

21.6.4. When the custody account loss meets the criteria in paragraphs **21.6.3.1.** or **21.6.3.2.** the organizational commander of the account may allow the responsible individual to pay for the loss by processing a DD Form 114, **Military Pay Order**; DD Form 362, **Statement of Charges/Cash Collection Voucher**; or DD Form 1131, **Cash Collection Voucher**, in lieu of a ROS, or may sign a letter stating that payment is not required. If the commander chooses one of these options, they will provide the MASO with a copy of the letter or one of the forms listed above to support the inventory adjustment.

21.6.5. The cost of ROS for small dollar losses may exceed recoveries. However, considering the sensitivity of munitions items, more emphasis is placed on accountability rather than economy or efficiency.

21.6.6. Do not submit a ROS for losses resulting from aircraft accidents and property lost during combat operations. Use the aircraft mishap report or a letter signed by the OG or LG commander as authority for inventory adjustment. A copy of the report or letter will be filed with the inventory adjustment document.

21.6.6.1. Commanders may elect to process a ROS regardless of criteria.

21.6.7. See AFMAN 23-220, *Reports of Survey for AF Property* for ROS format and procedures.

21.6.8. Use the ROS to substantiate adjustment of the stock record account, to recommend corrective action and to determine the financial responsibility of the accountable officer or any other person involved in the discrepancy.

21.6.8.1. Use the suspense copy of the ROS to process the inventory adjustment, pending receipt of the approved ROS.

21.6.9. Whether or not an ROS is required, one or more of the following documents will support an inventory adjustment document:

21.6.9.1. DD Form 200, **Financial Liability Investigation of Property Loss**.

21.6.9.2. AFTO Form 102 (or a signed CAS-B generated Inspection Document).

21.6.9.3. DD Form 114.

21.6.9.4. DD Form 362.

21.6.9.5. DD Form 1131.

21.6.9.6. SF 361, **Transportation Discrepancy Report**.

21.6.9.7. SF 364, **Report of Discrepancy**.

21.6.9.8. Inventory count sheets.

21.6.9.9. Transaction histories.

21.6.9.10. A letter from the commander (custody accounts) allowing relief from accountability without financial reimbursement.

21.6.9.11. A discrepancy investigation statement with copies of erroneous documents which could not be reverse posted.

21.6.9.12. DIREP when adjustments result from a computer discrepancy.

21.6.10. Prior to processing any inventory adjustment documents, obtain approval in writing from the certifying and approving officials. This signed approval will be attached to the inventory adjustment document. The CAS inventory adjustment document need not be signed.

21.6.10.1. Inventory adjustments that require a ROS for relief of accountability will be certified by the MASO and approved by the LG or equivalent.

21.6.10.2. Inventory adjustment documents, which do not require an ROS, will be certified by the NCOIC of munitions operations or equivalent and approved by the MASO. The MASO may not delegate authority to approve inventory adjustments. If the MASO is not available, the commander will approve adjustments.

21.6.10.2.1. When individuals certify or approve inventory adjustment documents, they are indicating:

21.6.10.2.1.1. Awareness of the discrepancies reflected in the inventory adjustment document.

21.6.10.2.1.2. Approval of actions taken to resolve the discrepancy and prevent recurrence.

21.6.10.2.2. If the certifying official is not satisfied with the research accomplished or the actions taken, they should return the document to the initiator with instructions to perform additional research or initiate a DD Form 200 if additional research does not satisfactorily explain the discrepancy.

21.6.11. The criteria and actions described above for reports of survey and inventory adjustments also apply to munitions assigned to a stock record or custody account which are damaged or destroyed for reasons other than fair wear and tear, authorized expenditure, aircraft loss, installation, or disposition. In these cases, the accountable officer or the account custodian is liable for the damage, or destruction until relieved of accountability.

21.6.12. If you recover munitions previously adjusted from accountable records as listed above, put the assets back on accountable records by processing an inventory adjustment. Cross-reference the two inventory adjustments.

21.6.13. If the discrepancy involves finding more assets on stock than are on accountable records, thorough research must be done to determine the source of the excess items, to include inventorying custody accounts with like items on record.

21.6.13.1. If the items are from a receipt or turn-in, which was not processed, process the transaction to pick them up on accountable records.

21.6.13.2. If the items meet Found on Base (FOB) turn-in criteria listed in paragraph **25.6.3.** use a FOB turn-in to pick them up on accountable records.

21.6.13.3. If the items do not meet the criteria in either paragraphs **21.6.13.1.** or **21.6.13.2.** process an inventory adjustment document to pick them up on record. Inventory adjustments to pick items up on record must be supported and processed in the same manner as described above to remove assets from accountable records.

Chapter 22

CUSTODY ACCOUNTS

22.1. References. Commanders and custodians will be familiar with:

22.1.1. DoD 5100.76-M, *Physical Security of Sensitive Conventional Arms, Ammunition and Explosives.*

22.1.2. DoD 5200.1-R, *Information Security Program.*

22.1.3. DoD 6055.9-STD, *DoD Ammunitions and Explosive Safety Standards.*

22.1.4. AFMAN 23-110, Vol 2, *Standard Base Supply Customer's Procedures*.

22.1.5. AFPD 24-2, *Preparation and Movement of US Air Force Property.*

22.1.6. AFI 31-101, *The Air Force Physical Security Program.*

22.1.7. AFI 31-401, *Information Security Management Program.*

22.1.8. AFMAN 91-201, *Explosive Safety Standards*.

22.1.9. Locally developed operating instructions.

22.2. Responsibilities.

22.2.1. The Organization commander is responsible for munitions issued to custody accounts. They will appoint a primary custodian. Recommend appointing at least one alternate custodian.

22.2.2. The MASO will train all custodians within 30 days of appointment. Training will be documented in the custodian and MASO jacket files.

22.2.3. Custodians are responsible for property management and are liable for loss, damage or destruction of property resulting from negligence, willful misconduct or deliberate unauthorized use.

22.2.4. Certifying Officials will:

22.2.4.1. Reconcile munitions expenditure reports and account inventories with training or aircraft load records before certifying accountable expenditure documents.

22.2.4.2. Ensure the forms agree with supporting documents and the stated quantity of munitions as actually used, before signing AF Forms 2005 or DD Forms 1150.

22.2.5. Custodians will:

22.2.5.1. Submit munitions forecast requirements according to this AFI and any supplemental instructions from HQ USAF/ILMW, MAJCOMs or the ALCs.

22.2.5.2. Ensure allocation isn't exceeded.

22.2.5.3. Ensure proper storage and transportation of munitions IAW AFMAN 91-201.

22.2.5.4. Ensures on-hand munitions do not exceed explosive safety limits.

22.2.5.5. Prepares and forwards the AF Form 68 to the commander.

22.2.5.6. Ensures the AF Form 2005 agrees with supporting documents.

22.2.5.7. Maintain copies of all issues, expenditures, and turn-ins of munitions items in the custodial jacket file since the last signed and reconciled Quarterly Custodian Inventory.

22.2.5.8. Transfer munitions accountability to a new custodian or turn in all munitions and explosives to the MASO at least 45 days before release from duty.

22.2.5.9. Obtain or provide transportation to pick up and deliver required munitions to and from the MSA.

22.2.5.10. Immediately screen and remove on-hand/installed munitions items, when notified of suspended or restricted munitions and take appropriate turn-in action.

22.2.5.11. Maintain lot number integrity (i.e., do not mix lots).

22.2.5.12. Ensure timely completion of custody account inventories and sign the inventory listings.

22.2.5.13. Ensure munitions in excess of the current FY allocation are scheduled for turn-in within 30 days. Refer to paragraph **14.1.5.** for procedures to maintain excess munitions on account.

22.2.5.14. Report any theft, suspected theft, loss or destruction of a munitions item (other than fair wear and tear, authorized expenditure, installation or disposal), to the MASO and applicable authority.

22.2.5.15. Turn in munitions residue, packaging, and containers to the munitions activity for certification or disposition.

22.2.5.16. Ensures munitions are not released to agencies or individuals outside the USAF.

22.2.5.17. Initiate a formal courtesy storage agreement with the munitions storage activity when such storage is required or considered in the best interest of the Air Force.

22.2.5.18. Inventories accounts as required by this AFI.

22.2.5.19. Ensure expenditures are submitted within 5 duty days, except during contingency operations.

22.3. Custody Account Jacket Files.

22.3.1. As a minimum, the MASO and munitions account custodian must keep the following in their jacket files:

22.3.1.1. The AF Form 68.

22.3.1.2. Approved allocation document, including any AF Form 1996s.

22.3.1.3. Current forecast.

22.3.1.4. Expenditure log.

22.3.1.5. Latest reconciled Quarterly Custodian Inventory (signed by the commander, custodian and MASO) and count sheets.

22.3.1.6. Latest reconciled Annual MASO Custody Inventory (signed by the commander, custodian and MASO) and count sheets.

22.3.1.7. Documented training and briefings.

22.3.1.8. Maintain copies of all issues, expenditures, and turn-ins of munitions items in the custodial jacket file since the last signed Quarterly Custodian Inventory.

22.4. Account Deficiencies.

22.4.1. If the custody account is not managed or maintained in accordance with this instruction the following procedures will be accomplished:

22.4.1.1. The organizational commander will be notified in writing and given the opportunity to correct deficiencies within 15 days or the account will be “frozen”.

22.4.1.2. If discrepancies are not corrected within 15 days after notification, the MASO will “freeze” the account.

22.4.1.2.1. The MASO will “unfreeze” the account when identified discrepancies have been corrected or may direct assets be turned in.

22.4.1.2.2. If discrepancies are not corrected within 30 days after notification, the group commander or equivalent will be notified through appropriate channels for assistance.

Chapter 23

ISSUES

23.1. General.

23.1.1. Munitions items will not be issued until all documentation has been properly processed. There are four types of issues.

23.2. Consumption Issue.

23.2.1. Consumption issues are limited to those assets consumed or installed within 15 days (i.e., DIFM, Time Change, Shop Stock, and R&D). Shop stock issues and research and development (R&D) activities are not bound by the 15-day rule.

23.2.1.1. Limit consumption issues to the amount to be consumed on the day of issue if storage, security or safety requirements cannot be satisfied.

23.2.1.2. DIFM. All ERRC code ”XD" will be controlled using DIFM. These assets are of high value and/or field/depot repairable and reusable. Use CAS DIFM listing (IS535A) to monitor DIFM assets to ensure they are returned within 15 days.

23.2.1.2.1. For initial issue requests with nothing to turn-in, use DIFM bypass Indicator with justification for initial issue annotated on back of AF Form 2005/DD Form 1150.

23.2.1.2.2. When an AUR missile is completely disassembled and components are packed up in individual containers, (i.e., warhead, rocket motor, GCU, etc.) consumption issue the AUR stock number using DIFM Bypass Indicator with explanation on reverse of AF Form 2005/DD Dorm 1150.

23.2.1.3. Time Change. Issue all CAD or PAD items regardless of ERRC under DIFM control. This ensures positive accountability, helps with foreign object control on the flightline and ensures explosives or munitions residue is properly secured, stored and inspected.

23.2.1.3.1. In CAS-B if the Time Change Indicator is set to “Y” in the Indicative Data Record (ISD25A), then DIFM control will be established unless the DIFM Bypass is used in the Issue Process (IS517A).

23.2.1.4. Shop Stock. Consumption issue of arming wire, swivel and links, ferrules, safety clips, lugs in support of category D allocations is authorized. Issue the items in QUP. For instance a roll of arming wire or a box of ferrules. These assets will be managed IAW AFI 21-101.

23.2.1.4.1. No more than 25 percent, rounded up to QUP, of the annual allocation may be issued at one time, not to exceed the annual allocation.

23.3. Custody Issue.

23.3.1. Use custody issues when an organization needs munitions for a period exceeding 15 days. Secure facilities and adequate storage must be available for all custody issues as outlined in AFI 31-101 and AFMAN 91-201.

23.3.1.1. Pre-Frag munitions necessary to support OPLANs or operation orders (OPORD) will be issued on a custody account.

23.3.1.2. Munitions and missiles maintained in built-up configurations to support pre-frag, inspections or contingencies are custody issued to the munitions activity having direct control and responsibility for that item.

23.4. Emergency Issue Procedures.

23.4.1. An emergency issue is an unforeseen requirement preventing a unit from performing its mission when the munitions item is to be installed/consumed within 12 hours of issue. Poor planning does not constitute an emergency.

23.4.1.1. Emergency requests must be justified and approved, in writing, by the group commander (or equivalent) or designated representative.

23.4.1.1.1. This designated representative must be appointed in writing and will not be lower than a unit commander.

23.4.1.1.2. The approval may be annotated on the reverse side of the AF Form 2005/DD Form 1150.

23.4.1.2. The approval must accompany the issue request.

23.5. Contingency Issue Procedures. In a combat or contingency environment, munitions will be issued as required and documentation must be processed within 72 hours. See **Chapter 34** for further guidance.

23.6. General Guidance.

23.6.1. The MASO will review and approve all issue requests.

23.6.2. The individuals identified in Part II of the AF Form 68 or commander certifies all issue requests by signing block A of the AF Form 2005.

23.6.3. Munitions will be issued in QUP or "LITE box" configuration when possible, to limit creation of "non-standard" packaging not within special packaging instructions/transportation packaging order (SPI/TPO) configuration, which creates a possible hazard class conflict as described in T.O. 11A-1-10.

23.6.4. Fill out the AF Form 2005/DD Form 1150 IAW local operating instructions. As a minimum, include the following:

23.6.4.1. Block A/10: Signature of organization commander or designated representative, date, and phone number (certifying official).

23.6.4.2. Block B/2: MASO signature.

23.6.4.3. Block C/7: Grounding date of aircraft for time change items. Blank for all others.

23.6.4.4. Block E/3: Statement "CONSUMPTION ISSUE" or "CUSTODY ISSUE", reason for use (such as, training, test, operational, and so on), and authorizing directive. Reason for late submission or impact statement for emergency request if applicable (use reverse side of form if necessary).

23.6.4.5. Block G/6: Date and time required.

23.6.4.6. Block J/4a: Item Nomenclature.

Chapter 24

EXPENDITURES

24.1. General.

24.1.1. Expenditures are used to document consumption of custody munitions. The commander or designated representative certifies expenditures.

24.1.2. The consuming organization or activity provides the MASO with expenditure documents within 5 duty days.

24.2. Documenting Expenditures.

24.2.1. Fill out the AF Form 2005 IAW local operating instructions. In addition to the blocks identified below, include the NSN, quantity, and document number of the original issue document:

24.2.1.1. Block A: Signature of organization commander or individuals listed in Part II of the AF Form 68, date and phone number.

24.2.1.2. Block B: MASO signature and date.

24.2.1.3. Block D: Lot/serial number.

24.2.1.4. Block E: Statement “EXPENDITURE”, reason for use (such as, training, test, operational), authorizing directive, and custodian’s signature .

24.2.1.5. Block J: Item Nomenclature.

Chapter 25

TURN-INS

25.1. Purpose. The user coordinates with the Munitions Flight to turn-in munitions. Turn-ins as discussed in this chapter refers to returning assets to CAS warehouse balances. There are five types of turn-ins.

25.2. Organizational Turn-in.

25.2.1. Turn-in of removed components (i.e., missile GCU) or empty accountable containers. These assets will be processed using the CAS FOB turn-in (IS542A).

25.2.2. Annotate “ORGANIZATIONAL TURN-IN” in block E of the AF 2005 or block 3 of the DD Form 1150. For removed component turn-in, annotate the serial number of the end item the component was removed from in the same block.

25.3. Custody Turn-in.

25.3.1. Turn-in of assets from custody accounts. Use CAS Custody Turn-in (IS539A). Annotate “CUSTODY TURN-IN” in block E of the AF 2005 or block 3 of the DD Form 1150.

25.4. Expenditure Turn-in.

25.4.1. This process will not be used to turn-in assets erroneously expended from a custody account. Units must reverse post or inventory adjust to correct errors.

25.4.2. Turn-in of assets originally consumption issued, which were not consumed (i.e., time change assets issued but not consumed within 15 days). Use CAS Expenditure Turn-in (IS541A) to process expenditure turn-ins.

25.4.2.1. Assets removed from operational use for cause must be turned in and reclassified. If assets are classified “For Training Use Only”, items can be reissued to custody accounts to fill authorized training allocations.

25.4.3. Annotate “EXPENDITURE TURN-IN” in block E of the AF 2005 or block 3 of the DD Form 1150.

25.5. Due-in From Maintenance (DIFM) Turn-in.

25.5.1. Turn-in of assets issued under DIFM control. Use CAS DIFM Asset Turn-in (IS540A).

25.5.2. Annotate “DIFM TURN-IN” in block E of the AF 2005 or block 3 of the DD Form 1150.

25.6. Found on Base (FOB) Turn-in.

25.6.1. The MASO reviews all FOB transactions to determine the need for a special inventory before processing the document. Each turn-in document must carry the following statement: "I have determined upon review of the transaction, that a special inventory (is)(is not) required.” The MASO signs the document showing that they reviewed it. These assets will be processed using the CAS FOB turn-in (IS542A).

25.6.2. Annotate “FOB TURN-IN” in block E of the AF 2005 or block 3 of the DD Form 1150.

25.6.3. A FOB turn-in includes DoD stocklisted munitions:

25.6.3.1. Removed from transient aircraft.

25.6.3.2. Removed from Amnesty boxes.

25.6.3.3. Confiscated munitions.

25.7. Processing Turn-ins.

25.7.1. Use AF Form 2005 or DD Form 1150 as the source document to process turn-ins.

25.7.2. Prepare turn in documents IAW local operating instructions. Minimum entries include the NSN, quantity, lot number, nomenclature, and document number of the original issue (if applicable).

25.7.3. For items designated as unserviceable enter information identified below in block E of AF Form 2005:

25.7.3.1. Specific item T.O. reference (DD Form 1150, block (b) Description).

25.7.3.2. Reason for unserviceable condition (DD Form 1150, block (b) Description).

25.7.3.3. Condition code (DD Form 1150, block (c)Code).

25.7.4. Lot number (AF Form 2005, Block D/DD Form 1150, block 4a).

25.7.5. Signature of inchecker of assets after verifying the turn-in, date, and phone number (AF Form 2005, block A/DD Form 1150, block 10).

25.7.6. Munitions Inspector signature (AF Form 2005,Block B/DD Form 1150, block 2).

25.7.7. Item Nomenclature (AF Form 2005 block J/DD Form 1150, block 4a).

25.7.8. Munitions items requiring depot repair (do not require PQDR or ADR processing) will be placed in CC-F (autoship items).

Chapter 26

DISPOSITION OF MUNITIONS

26.1. Resource Conservation and Recovery Act (RCRA).

26.1.1. Protecting the environment is a national priority and environmental protection agencies at all levels of government stress environmental compliance by all military agencies. All DoD organizations must comply with the spirit and intent of the RCRA and the provisions, as adopted by individual state environmental regulators, of the 1997 EPAs MR.

26.1.1.1. The MR is a federal standard, not a national standard, therefore, compliance requirements may vary from state to state and each base (led by its environmental coordinator) must contact its state regulators to determine the extent of state (or territory) adoption.

26.1.1.2. Non-compliance could result in fines or even criminal penalties for known violations. To the fullest extent possible, the base should coordinate with all DoD Components within the state (or territory) to assure the MR is being managed in a consistent manner.

26.1.2. All non-nuclear munitions, missiles and their components will be retained in the Air Force inventory as long as there is a requirement and the assets are serviceable, or economically reparable or recoverable.

26.1.3. All non-nuclear munitions, missiles and their components, whether designated as serviceable or unserviceable, will be managed in accordance with AFMAN 91-201.

26.1.3.1. Operations involving munitions designated as waste military munitions (WMM) will be managed IAW Department of Defense Explosive Safety Board (DDESB) rules in those states that have accepted the Conditional Exemption clause of the MR.

26.1.3.2. WMM operations in other states will continue to be managed IAW applicable RCRA requirements.

26.1.4. If any state environmental requirement conflicts with AFMAN 91-201, the affected installation must immediately consult with the appropriate state or regional regulatory agency.

26.1.4.1. Disputes with state/local regulators must be referred at once to installation environmental and legal offices for possible resolution.

26.1.4.2. On issues of DoD-wide significance/impact, the installation is not authorized to negotiate with state/local officials. These issues must be elevated to the MAJCOM Munitions and Environmental Management Staff Offices and the Air Force Regional Environmental Coordinator.

26.1.4.3. In resolving conflicts, life protection will be the primary concern of the decision-maker and AFMAN 91-201 standards will remain in effect pending resolution.

26.2. Air Logistic Centers Guidance.

26.2.1. The appropriate Product Group Manager (PM) will conduct an annual stockpile stratification to identify serviceable excess assets following determination of requirements through the NCAA process. Disposition of serviceable excess assets will be determined during the TAMP and Detail Logistics Allocation Report (DLAR) processes and prioritized for movement in the annual GAP munitions movement plan.

26.2.2. PMs will direct redistribution via a RDO of excess serviceable items to satisfy worldwide requirements.

26.2.2.1. These RDOs will be coordinated with the applicable MAJCOMs.

26.2.2.2. The use of ADRs for reporting excess serviceable munitions will no longer be acceptable.

26.2.3. If for any reason, serviceable excess munitions were overlooked during the above reporting periods, units will report to your MAJCOM who will then pass your information to OO-ALC/WMR for conventional munitions and WR-ALC/LKGL for tactical missiles.

26.2.4. PMs will receive and process ADRs (AF Form 191 or CAS equivalent).

26.2.4.1. The PMs will establish a central ADR processing function to ensure alternative uses of reported munitions are fully considered before authorizing disposal.

26.2.4.2. Processing function personnel should be experienced in munitions manufacture, use, storage/transportation, inspection, accountability, and stockpile management.

26.2.4.3. Disposition instructions will be provided within 60 days after receipt of an ADR by the PM.

26.2.4.3.1. If instructions are not provided within the 60-day time frame, after receipt to the PM, the originator should initiate follow-up action and monthly follow-ups until disposition instructions are received.

26.2.4.3.2. These instructions may direct shipment to any of the following locations: a base from a different MAJCOM; a storage location; a repair/recovery/recycling facility; an Army or Navy location; a foreign military sales destination; or (as a last resort) a TTU.

26.2.4.4. PMs will maintain a record of all ADRs for a period of three years. The purpose is to provide details of individual evaluations upon request.

26.2.5. The PMs (OO-ALC/WM and WR-ALC/LKG) are the Designated Disposal Authority (DDA) for the Air Force. The SMCA is the DDA for the DoD.

26.2.5.1. As defined in the MR, they are the only persons who are authorized to identify military munitions items as WMM.

26.3. Base Guidance.

26.3.1. The responsibility to consider safety begins at the lowest level, and the authority to deal with a problem as an immediate response begins with the munitions handler.

26.3.1.1. When it is the determination of the EOD response specialist that an unserviceable munitions is not safe to transport or store, request for disposition from a Product Group Manager (PM) is not necessary. Rather it will be declared an immediate response (Level 1) by the EOD specialist and subject to DDESB and MR guidelines.

26.3.2. Installation commanders may approve the disposal or destruction of munitions or explosives that constitutes an immediate danger to human life or property.

26.3.2.1. The base MASO must inform the appropriate PM when stocklisted munitions or explosives are found to be immediately dangerous and the condition is not a result of misuse or mishandling.

26.3.2.1.1. This provides for proper production lot suspension or restriction actions to be taken by the PM.

26.3.2.1.2. As directed by T.O. 11A-1-1, the PM will take prompt action to advise users that the lot has been suspended or restricted.

26.3.2.2. If munitions personnel have any questions or doubts about the safety of munitions assets, please contact your local EOD or the Air Force's DDA before reporting the asset on an ADR.

26.3.2.3. Once EOD or Technical Escort Unit personnel have determined whether the response can be delayed without compromising safety or increasing the risk to human health, follow the Imminent and Substantial Endangerment Response (Level 2) instructions in the MR.

26.3.3. Each base must assure that a partnership is established with Environmental staff, Judge Advocate staff, EOD staff, and munitions organizations to resolve any munitions environmental problems at the lowest level.

26.3.4. Ammunition Disposition Request (ADR).

26.3.4.1. Requests must include, as a minimum, the following information:

26.3.4.1.1. ADR number.

26.3.4.1.2. Date submitted.

26.3.4.1.3. National stock number (NSN).

26.3.4.1.4. Lot number(s)/Serial number(s), if applicable.

26.3.4.1.5. Condition code.

26.3.4.1.6. Quantity.

26.3.4.1.7. Reason for reporting.

26.3.5. The use of ADRs for reporting excess serviceable munitions will no longer be acceptable.

26.3.5.1. Serviceable excess assets will be determined during the TAMP and DLAR processes and prioritized for movement in the annual GAP munitions movement plan.

26.3.5.2. If for any reason, serviceable excess munitions were overlooked during the above reporting periods, units will report to your MAJCOM.

26.4. Disposition of DoD Stocklisted Munitions.

26.4.1. When DoD stocklisted non-nuclear munitions, missiles, and related explosive components become unserviceable at base level, the intent of the DoD is to ship assets to the appropriate location for further disposition/recycling.

26.4.1.1. The munitions inspector(s) will assign condition code "P" and the MASO will forward an ADR (or CAS equivalent) to the appropriate PM for disposition instructions.

26.4.1.2. Since the DoD intent is to recycle as many unserviceable stocklisted explosive assets as possible, it is important for all personnel to understand this use of condition code "P".

26.4.2. Policy for implementation of the EPA MR states that only a DDA may identify munitions as waste.

26.4.2.1. For the Air Force, the DDAs are further identified as the PMs.

26.4.2.2. The PM response to an ADR will either designate the munitions as waste and direct shipment to a TTU or to another location for further evaluation/recycle.

26.4.2.3. If the latter location is an Army Depot, the PGM will furnish the appropriate address. The MASO will assure this address is included in the supplementary address (blocks 45-50) of the shipping document.

26.4.3. When condition code "P" is assigned, T.O. 00-20-3, *Maintenance Processing of Repairable Property and Repair Cycle Asset Control System,* Table 3-1, Rule 14 will apply.

26.4.3.1. This rule directs that a DD Form 1577, **Unserviceable/Condemned Tag**, or DD Form 1577-1, **Unserviceable/Condemned Label**, will be attached.

26.4.3.2. Prior to attaching the tag/label, any preprinted "H" and "Condemned" will be crossed out and a "P" and "Reclamation" designation will be substituted.

26.4.4. If the PM directs shipment to another installation, the originating base MASO will assure compliance.

26.4.4.1. If the PM has no alternative disposition for the munitions, the base will receive notification to dispose.

26.4.4.1.1. Base munitions personnel will take action to segregate this waste munitions from serviceable/unserviceable assets.

26.4.4.1.2. The waste munitions must be clearly marked. Such identification may be by individual unit, pallet load, igloo, etc.

26.4.4.1.3. Separate storage facilities are not required for munitions designated as waste provided Air Force explosive standards are not compromised.

26.4.4.2. The EPA MR provides that WMM designated for disposal in a state or territory that is granted Conditional Exemption does not become a hazardous waste until it "leaves the igloo door" enroute to the disposal location.

26.5. Local disposal of nonexplosive (inert) munitions components will be at the discretion of the base MASO. A limit of $2,500 per quarter, per NSN, will apply.

26.5.1. In the event unusually expensive components (i.e., SUU-25) or large quantities of less expensive components become unserviceable, parent MAJCOMs may authorize local disposal.

26.5.2. Documentation procedures for such disposal are at MAJCOM discretion.

26.6. Disposition of DoD Non-Stocklisted Munitions.

26.6.1. MASOs may authorize local disposition of Research, Development, Test and Evaluation assets or excess items that have been used in research and development projects/tests if project managers can not return them to an original configuration (L10 stocklisted items).

26.6.2. Assets subjected to temperature treatment, vibration or impact testing will not be returned for issue or redistribution. Such items are inherently suspect and pose safety risks for general use.

26.6.3. After a Non-Stocklisted Munitions item has been used/considered for use in a test or evaluation program, the asset will be evaluated to determine its safety and proper identification.

26.6.3.1. If assets cannot be properly identified, meet hazard classification requirements, DOT requirements, or otherwise accepted for another program they should, on a-case-by-case, be considered for local demilitarization.

26.6.3.2. If determination of safety cannot be made with certainty, treat the asset as a Level 2 and coordinate its disposal with the Base Environmental Staff, EOD, Munitions Personnel, Local EPA and the Air Force DDA. The installation Commander has the final disposition authority.

26.7. Disposition of Commercial off the Shelf (COTS), Non-Stocklisted, Mili tary Munitions.

26.7.1. Disposition requests for munitions purchased through the COTS system (i.e., certified by Non-nuclear Munitions safety Board (NNMSB) and approved by OO-ALC/WM for munitions system management) will be requested through the PM via the ADR process. If local stock numbers are assigned, list a DoD stocklisted item the COTS munitions is closely related to (i.e., shotgun shells, 9mm hollow-point) in the remarks section.

26.7.2. Commanders that elect to purchase COTS munitions not approved for munitions system management, but have received NNMSB approval accept “cradle-to-grave” responsibility for the munitions at the local level, outside the MSA, to include final disposition of malfunctions (Duds), residue and excess.

26.8. Non-Stocklisted, Non-Military Munitions.

26.8.1. Munitions personnel will make an attempt to determine if munitions found on base or turned in from amnesty boxes were derived from a military source. If this determination can be made with certainty, follow disposition instructions contained in paragraph **26.5.**

26.8.2. If determination of safety can not be made with certainty, treat the asset as a Level 2 and coordinate its disposal with the Base Environmental Staff, EOD and Munitions Personnel, Local EPA and the Air Force DDA. The installation Commander has the final disposition authority.

26.8.2.1. If the decision is made to dispose, existing Air Force TTUs should be considered. Prior to selecting an existing TTU, the following conditions must exist;

26.8.2.1.1. Munitions must be safe to transport.

26.8.2.1.2. The TTU option is more cost effective that local disposal options (i.e., civilian contract).

26.8.2.1.3. The receiving base TTU must be permitted to accept waste munitions from off-site for disposal.

26.9. Munitions Demilitarization/Disposal Documentation Procedures.

26.9.1. All munitions assets authorized for demilitarization/disposal and transfer to DRMO under AF Form 191 procedures must be processed using Transaction Identification Code (TRIC) A5J (CAS-B program I.D. ISI61A). This "Transfer to DRMO" will be documented on DD Form 1348-1A or 1348-1.

26.9.1.1. When the demilitarization or disposal activity is not on the same base as the Munitions Account processing the A5J input, the SRAN/DoDAAC of the base where the demilitarization or disposal activity is located must be entered as the "Ship to" address.

26.9.1.1.1. Inert, empty or non-explosive munitions and components are demilitarized according to their DEMIL CODE by qualified munitions personnel. When Munitions Flight personnel conduct the demilitarization, the SRAN/DoDAAC of the Munitions Account will be the "Ship to" address.

26.9.1.1.2. Transfers (Shipments) to central disposal activities will be processed using TRIC SHP and handled as directed in **Chapter 27**.

26.9.1.2. Explosives or classified assets must be fully demilitarized as directed by the Department of Defense. Non-explosives and non-classified assets must be demilitarized as directed by the demilitarization code assigned to them. Refer to the asset IDR or Federal Catalog (FEDLOG) for demilitarization code and definition.

26.9.2. Inspect and certify Ammunition, Explosives, Dangerous Articles (AEDA), AEDA residue, range residue and explosives-contaminated property, IAW DoD 4160.21-M, *Defense Reutilization Marketing Manual*, Chapter 4 and T.O. 11A-1-60.

26.9.2.1. If a determination can not be made if the residue is hazardous, consult with the local Environmental Management Office. Residue may have to be tested for Toxic Characterization Leeching Process performed by an EPA certified laboratory. Report findings from the test to OO-ALC/MWC for consolidation for future reference.

26.9.2.2. Ensure local written procedures are published and adhered to using processes from DoD 4160.21-M.

26.9.2.3. If additional instructions are required, contact OO-ALC/MWC.

26.9.3. Temporary Property Accountability.

26.9.3.1. Munitions authorized for demilitarization or disposal according to AF Form 191 will be scheduled for demilitarization or disposal on a certain date.

26.9.3.1.1. Coordination between Munitions Inspection, Operations and the disposal/demil activity will ensure that disposal documents are produced not earlier than 5 days before the scheduled demilitarization or disposal date.

26.9.3.1.2. The A5J will be accomplished in enough copies to provide DRMO one original and six copies and Munitions Operations with the original Document Control Copy and one suspense copy (two books).

26.9.3.1.3. If complete disposal occurs (as with explosives) DRMO will not normally receive scrap.

26.9.3.1.4. Documents will then be routed to the Munitions Inspection Element for shipment inspection and temporary property accountability before the assets are transferred to the demilitarization activity or the DRMO.

26.9.4. Completing the Demilitarization/Disposal Certificate.

26.9.4.1. If residual saleable materiel remains, the demilitarization official must certify that "DEMILITARIZATION HAS BEEN ACCOMPLISHED. THERE IS RESIDUAL MATERIEL WHICH HAS BEEN DOWNGRADED TO SCRAP". The stock number must be circled and the word SCRAP entered. The scrap materiel and the documents must be returned to DRMO for processing.

26.9.4.2. If demilitarization results in complete destruction of the items, the disposal official must certify that "DISPOSAL HAS BEEN ACCOMPLISHED. THERE IS NO RESIDUAL MATERIEL WHICH HAS BEEN DOWNGRADED TO WASTE".

Chapter 27

SHIPMENTS

27.1. General Guidance.

27.1.1. The transportation office provides the MASO with a list of individuals authorized to receipt for munitions and explosive items, including classified items to be released to the transportation movement officer for shipment. For organic movements, the gaining MASO will provide a list of authorized personnel to the losing MASO for receipt of munitions.

27.1.1.1. The list contains name, rank, SSAN, security clearance and signature specimen for each authorized individual. Update the list as changes occur, and reaccomplish annually.

27.1.1.2. Do not release munitions items to transportation unless the individual appears on current listing.

27.1.2. Transportation personnel need not sign a shipping document unless it is processed through the transportation activity (for example, munitions moved by munitions functional personnel from base A to base B).

27.1.3. When an item needs repair and return, use the instructions issued by the item manager or system manager directing the shipment as the governing directive.

27.1.4. Process all RDOs to ensure the RDO RDD is met.

27.1.4.1. When tasked to ship MICAP, turn the documentation over to transportation within 24 hours.

27.1.4.2. Units will generate and review the Unsatisfied RDO Listing (ISI24A) daily. This listing serves as authority to ship assets. Units unable to support requests will enter the proper RDO denial status code in the Unsatisfied RDO (ISI22A), and contact MAJCOM.

27.2. The Global Transportation Network (GTN).

27.2.1. GTN provides in-transit visibility of munitions movements through the Cargo Movement Operation System (CMOS). As there is no interface between CAS and CMOS, or CAS and GTN, the MASO at each unit is required to establish a GTN account.

27.2.1.1. To obtain GTN account, go to the GTN homepage at http://wwwgtn.safb.af.mil/. This will lead you to a sample letter and mandatory information for establishing the account. In the event you do not have Internet capabilities, establish a local policy with your servicing transportation unit to provide access to the data to track shipment status.

27.2.2. Once the property is released to or scheduled with the servicing transportation unit, obtain the GTN related to the shipment and update the CAS-B in-transit record indicating date sent to transportation, estimated ship date, and current status of BA (being prepped for release). Once notified of the date the shipment will actually leave the base update CAS in-transit record as appropriate. The asset balance doesn't decrease until the Date Departs Station (DDS) is entered in CAS.

27.2.3. Once in possession of the TCN, contact the receiving munitions unit by phone, e-mail, fax, or message to inform them the shipment was processed.

27.2.3.1. As a minimum, provide national stock number, quantity, estimated delivery date, and TCN.

27.2.3.1.1. NOTE: Do not drop the property from CAS records until the shipment physically leaves your installation.

27.2.4. Develop local policy with transportation to cover inbound and outbound shipments (as applicable) to include weekly reconciliation procedures. Using GTN, both shipper and receiver can track the status of the shipment in the transportation cycle using the TCN.

27.2.5. In the event the recipient does not receive the material by the required delivery date, follow-up action can be generated in CAS if the DDS is not greater than 30 days, if DDS is greater than 30 days tracer action must be initiated with transportation unit using the TCN.

27.2.6. If received at a non-Air Force agency, or at an Air Force agency not using CAS, the receiving munitions agency must inform OO-ALC/WM (CAS-A) that the property was received in order for CAS-A to forward the receipt acknowledgement to the shipping base.

27.2.7. In order for the Ammunition Control Point (ACP) to maintain visibility over munitions shipments, it is extremely important the unit updates accurate and timely shipment data within 48 hours into CAS-B at both the shipping and receiving locations. This ensures data is passed to the ACP.

27.2.7.1. In the event CAS is not available at the shipping or receiving installation, the MASO must keep the servicing Major Command and the ACP appraised of the shipment status via any expedient and accurate means, i.e., message, e-mail, fax, etc.

27.2.7.2. Maintain status of each outbound movement. Reconcile munitions awaiting shipment with all applicable agencies weekly.

27.2.7.3. Assign project code IAW **Table 27.1.**.

27.2.7.4. Assign one of the following Transportation Account Codes (TAC) as appropriate:

27.2.7.4.1. F8RL. Used for movement of general cargo for special weapons.

27.2.7.4.2. F8RT. Used for movement of missiles governed by the TAMP.

27.2.7.4.3. F8SW. Used for movement of special weapons and associated hardware.

27.2.7.4.4. F8UT. Used for movement of conventional munitions and precision guided munitions not covered by the TAMP.

Table 27.1. Project Codes.

Proj Code	Project Code Name	Project Code Description	Category Prioritized
121	DLAR (WRM) (Cat F & G)	All moves to meet DLAR Positioning Objectives for WRM	Prioritized
725	Retrograde	All moves excess to requirements, from Retail to Wholesale to include serviceable excess	Prioritized
726	TAMP Redistribution	All moves to meet TAMP Positioning Objectives	Must Pay (PTO) Prioritized (WRM)

Proj Code	Project Code Name	Project Code Description	Category Prioritized
727	DLAR (PTO)	All moves to meet DLAR Positioning Objectives for PTO	Must Pay (PTO) Prioritized (WRM)
728	In-Command Realignments	MAJCOM directed moves	Must Pay (PTO) Prioritized (WRM)
729	ADR	Item manager directed disposition instructions for unserviceable/suspended munitions	Must Pay
730	Maintenance/Modification Returns and Replacements	Missile/Munitions components returned to wholesale repair facility and/or replacements to units; includes TCTO Mod shipments	Must Pay
731	Aging and Surveillance (AGE/SURV)	Item manager requests for munitions shipments for aging or system reliability testing	Must Pay
732	Government Furnished Equipment/ Material (GFE/GFM)	Shipments to and from contractors not covered by the contract	Must Pay
733	CAD/PAD	CAD/PAD requirements	Must Pay
734	Containers	All movements of FSC 8140 (empty/reusable) containers (excluding ISOs)	Must Pay (Auto-ship)
735	WRSA	Movements to place munitions in WRSA accounts	Must Pay
736	Unprogrammed	All munitions movements not specifically covered above and authorized by HQ USAF IL/XO	Approval Required

Chapter 28

MISSILE MANAGEMENT

28.1. General Management Guidance.

28.1.1. Installations will requisition parts to replace unserviceable assets. Requisitions and shipments of GCUs will be in QUP.

28.1.2. Unserviceable GCUs will be shipped to depot facilities in full containers, using priority 02. For oversees shipments, PACER TAMP Project Code 070 will be entered in the "Project Code" field and the PACER AMMO project code (see **Table 27.1.**) will be entered in the "Remarks" column. Requisitioning of GCUs using MICAP procedures is not authorized.

28.1.2.1. Requisition replacement GCUs based on the number of unserviceable GCUs shipped to depot or manufacturer. Use priority 02 and RDD of requisition date plus 90 days.

28.1.2.2. In CAS processed requisitions, place the TCN and quantity of shipped GCUs (in CC "F") in the "Comments" field (i.e. 4 EA FV0003 7329 7503, F). Lack of information in the "Comments" field may result in needless delay for GCU replacements.

28.1.3. If an AUR component fails, change the CC to "G" if a replacement component is not available or CC "E" if the replacement component is available. Pick-up the failed component on accountable records using an Organizational Turn-in. Once the component is replaced, return the AUR to the appropriate condition code. Consumption issue replacement components to maintenance using DIFM bypass indicator "Y".

28.2. AIM/CATM-9 GCU Management.

28.2.1. Use spare GCUs to support CATM requirements when available. However, when GCUs must be removed from serviceable AUR missiles, establish accountability of serviceable GCU removed from an AUR for CATM use by turning in (Organizational Turn-in) and issuing the GCU to custody account maintaining the CATMs. CAUTION: In the event that AIM-9M-9 GCSs are returned to the tactical missile configuration, units will insure GCSs are mated with the tactical missile containing the MOD 11 Rocket Motor and latest Active Optical Target Detector.

28.2.2. The AUR, the GCU was removed from, will be reidentified to the stubby National Stock Number (NSN 1427-01-319-9495AB) created for the management of tactical missiles with the GCS removed. Total number of stubbies should at least equal the quantity of CATMs each unit is authorized and may in some cases equal more if units are required to go deeper into their War Reserve Stocks to continue to support CATM requirements as GCSs fail.

28.2.2.1. When the total number of GCSs issued to the custody account or available in base stock falls below the number of on hand stubby missiles, units will place a quantity of stubby missiles in Condition Code "G" equal to the quantity of GCSs requiring requisition. Once serviceable replacements are received and total number of serviceable GCSs is equal to or greater than total number of stubby missiles, then stubby missiles will be returned to Condition Code "A". It is understood that under normal circumstances a stubby missile will always be serviceable, for accountability purposes and to allow WR-ALC/LKGL to determine total serviceable All-Up-Round availability, it is necessary to track stubbies in this manner. Units will ship unserviceable GCSs in quantities of two or four to the repair facility in an expeditious manner.

Chapter 29

CONTAINER MANAGEMENT

29.1. Managing Containers. Because selected empty munitions and missile component containers, including AUR missile containers, are munitions managed items, you must maintain them on accountable records.

29.1.1. Unless specifically directed or the budget code is H, ERRC XB3 and XF3 munitions containers will not be managed on FV accountable records.

29.1.2. OO-ALC/WM:

29.1.2.1. Codes all FSC 8140 reusable containers with ERRC T (XD2) when the authority for disposition rests with OO-ALC/WM.

29.1.2.2. Identifies accountable containers in the CAS IDR file.

29.1.2.3. Loads basic reparability data in the CAS IDR.

29.1.2.4. Updates the Reparable Item Movement Control System (RIMCS) to determine ship to address.

29.1.2.5. Validates empty containers in the CAS IDR every 6 months.

29.1.3. The munitions activity manages, controls, and reports empty munitions containers IAW basic reparability data in the IDR file.

29.1.4. Empty munitions and missile component containers are identified by a specific container NSN, model number, serial number and item technical order.

29.1.5. Containers will normally be issued bypassing the DIFM “Y” indicator, thereby not creating a DIFM detail. This will be the case unless you are issuing a replacement container.

29.1.6. After removing assets from their packaging, the owning or using organization will turn-in the empty containers.

29.1.6.1. Organizations need not turn-in containers due to munitions removed for temporary maintenance.

29.1.6.2. Base activities will keep enough empty munitions containers on hand to break down all built-up complete rounds.

29.1.6.3. MAJCOMs may dictate the quantities of empty containers their units are authorized to maintain. Before serviceable excess containers are returned, contact the MAJCOM for possible redistribution.

29.1.7. Inspect/certify and dispose of unneeded containers IAW 11A-1-60.

29.1.8. The MASO inventories empty munitions, missile component and AUR containers with scheduled custody account or account inventories. The MASO directs turn-in of empty containers not found on accountable records and resolves the condition for the unreported items.

29.1.9. Because accountable munitions containers are DIFM assets (XD2), base level disposition of containers is not authorized.

Chapter 30

TEST/CONTRACT MUNITIONS MANAGEMENT

30.1. General Guidance.

30.1.1. All munitions assets received in support of Research and Development tests will be managed on the stock record account and will be issued and controlled by local procedures required by this instruction. Test directives can be used in lieu of AF Form 1996 to support the levels established on nonforecasted and local stock numbers.

30.1.2. Munitions item issued in support of an active R&D test will be placed on a Custody Account when possible. When assets are receipted by Project Office, control and accountability rest with these officials.

30.1.2.1. Upon completion of R&D test the remaining assets must be returned to the munitions storage area and place on stock record account.

30.2. Forecasting for Test/Contract Munitions.

30.2.1. Test munitions (except for L number items) must be forecasted/allocated annually.

30.2.1.1. OOCR for tests will be submitted to the base MASO for review. If the MASO cannot provide an allocation for the OOCR, the MASO will then forward the request to the MAJCOM functional manger for review.

30.2.1.2. If the MAJCOM MUFM cannot provide an allocation, the MUFM will then forward the request onto Air Staff for approval.

30.2.1.3. Test organizations must forecast for any impulse cartridges required to support test requirements.

30.3. Purchase of Test/Contract Munitions.

30.3.1. Test Managers and Program Managers who purchase standard stock numbered and nonstandard munitions assets for test will act as Item Managers for these items. Purchase orders will be maintained for audit purposes. In addition, they will act as the MUFMs in allocation transfers of these assets.

30.3.1.1. A copy of the Military Interdepartmental Purchase Request (MIPR) or any applicable documentation will be provided to the MASO for munitions procured by the Program Manager.

30.3.2. Acting as the item manager on nonstandard munitions, test program managers will provide and support final disposition of these munitions.

30.3.3. During procurement, test managers and program managers will request technical data, MSDS, Interim Hazard Classification (IHC), chemical constituency data and disposal data for these assets.

30.3.3.1. Nonstandard munitions received without sufficient documentation, e.g. technical data, constitutes a potential safety hazard to both facilities and personnel. The receiving element will impound those munitions and place them in condition code J (suspended from issued, true condi-

tion unknown) until required documentation is received. Additionally, MSDS, Chemical Constituency report and IHC must be made available to the receiving agency prior to shipping the assets.

30.4. Disposing of Test/Contract Munitions.

30.4.1. For standard stock numbered munitions an ADR will be submitted to the appropriate PGM for disposition.

30.4.2. If an unsafe situation develops with test munitions, base commanders or equivalent, in coordination with EOD, may approve the destruction of a munitions or explosive item that constitutes an immediate danger to human life or property.

Chapter 31

TIME-CHANGE CARTRIDGE ACTUATED DEVICE/PROPELLEANT ACTUATED DEVICE (CAD/PAD) MANAGEMENT

31.1. Forecasting for Time Change Assets.

31.1.1. Forecast requirements for time-change aircraft cartridge actuated devices (CAD) and propellant actuated devices (PAD) will be accomplished using the AFTO Form 223, **Time Change Requirements Forecast**, (automated or manual) IAW T.O. 00-20-9, *Forecasting Replacement Requirements for Selected Calendar and Hourly Time Change Items.*

31.2. Requisitioning Time Change Assets.

31.2.1. For OCONUS bases, using organization submit time-change issue requests (AF Form 2005/ DD Form 1150) to the MASO between 90 and 120 days before the next calendar year quarter (see **Table 31.1.**).

31.2.1.1. The MASO submits quarterly consolidated requisitions to OO-ALC/WM, Hill AFB, UT 84056-5260.

31.2.1.2. This allows time for surface movement actions to take place.

31.2.1.3. Use the AFTO Form 223, **Time Change Requirements Forecast**, or CAMS generated forecast as justification.

31.2.1.4. Provide supplemental shipping addresses when applicable (i.e., time change replacement at or during depot maintenance, deployed aircraft) with “MARKED FOR TAIL NUMBER XXXX”.

Table 31.1. OCONUS Time Change Requisitioning Schedule.

Required Month	Earliest Requisition Date	Latest Requisition Date
Jan - Mar	1 Sep	1 Oct
Apr - Jun	1 Dec	1 Jan
Jul - Sep	1 Mar	1 Apr
Oct - Dec	1 Jun	1 Jul

31.2.2. For CONUS bases, using organization submit time-change issue requests (AF Form 2005/DD Form 1150) to the MASO between 45 and 60 days before the next calendar year quarter (see **Table 31.2.**).

31.2.2.1. The MASO submits quarterly consolidated requisitions to OO-ALC/WM, Hill AFB, UT 84056-5260.

31.2.2.2. This allows time for surface movement actions to take place.

31.2.2.3. Use the AFTO Form 223, **Time Change Requirements Forecast**, or CAMS generated forecast as justification.

31.2.2.4. Provide supplemental shipping addresses when applicable (i.e., time change replacement at or during depot maintenance, deployed aircraft) with “MARKED FOR TAIL NUMBER XXXX”.

Table 31.2. CONUS Time Change Requisitioning Schedule.

Required Month	Earliest Requisition Date	Latest Requisition Date
Jan - Mar	1 Nov	15 Nov
Apr - Jun	1 Feb	15 Feb
Jul - Sep	1 May	15 May
Oct - Dec	1 Aug	15 Aug

31.2.3. Late requests require a letter with reason for late submission and signature of the requester’s commander.

31.2.4. The user will submit a supplemental forecast, when requested quantities exceed the forecast.

31.2.5. CAD/PAD stock levels are limited to one per type aircraft or missile system supported in case of inadvertent firings. If additional levels are required, justify on an AF Form 1996 (see attachment 3).

Chapter 32

COMMERCIAL OFF THE SHELF (COTS) MUNITIONS

32.1. COTS Munitions (formerly Local Purchase Munitions). COTS munitions will not be purchased prior to completing the procedures for approval outlined in this chapter. The program objective is to protect the safety and health of Air Force personnel and maintain accountability of dangerous items while supporting operational requirements.

32.1.1. The intent of authorizing COTS munitions purchases is to meet unique, non-recurring, short-term (less than one year) requirements.

32.1.2. Munitions required for long-term needs or commitments should be identified to the applicable Air Staff agency. The Air Staff agency should develop an Operational Requirements Document for submission to the appropriate Air Logistics Center (ALC) for procurement, sustainment strategies, cataloging and management.

32.1.2.1. Munitions for long-term requirements may be authorized for COTS purchase while awaiting full program development, provided the approval procedures of this chapter are completed.

32.1.3. COTS munitions will not be stockpiled in large quantities (more than a 90-day requirement) on military installations.

32.2. Authorization Requirements.

32.2.1. Authorization to purchase COTS munitions is a three stage process that includes;

32.2.1.1. Munitions system management determination by OO-ALC/WM.

32.2.1.2. Assignment of hazard classification (HC) IAW T.O. 11A-1-47, *Department of Defense Ammunition and Explosives Hazard Classification Procedures.*

32.2.1.3. Non-Nuclear Munitions Safety Board (NNMSB) safety certification, IAW AFI 91-205, *Nonnuclear Munitions Safety Board*.

32.2.2. Prior to reaching the first of these three stages, the requesting unit must develop a data package, using an AF Form 1768, **Staff Summary Sheet**, for coordination and approval through installation and MAJCOM level agencies identified in **Figure 32.1.** and **Figure 32.2.**

32.2.2.1. For the purpose of this chapter “requesting unit” is defined as the lowest commanded organizational level intended user personnel are assigned.

32.2.2.2. OO-ALC/WM will be notified of all items in use without prior approval. Use will immediately be discontinued and a data package submitted for approval consideration.

32.2.3. Munitions system management. Determination for management through the munitions system is made by OO-ALC/WM COTS Munitions Program Manager (CMPM), or Integrated Material Manager (IMM).

32.2.3.1. This determination is based on the ability to assign an existing (like item) Technical Order (T.O.), obtain Special Packaging Instructions (SPI), account for items through the Combat

Ammunition System-Base (CAS-B), and provide final disposition instructions for unserviceable and excess items.

32.2.3.2. If the CMPM determines requested munitions are not manageable within the munitions system, the request may proceed for interim HC and NNMSB safety certification.

32.2.3.3. Commanders that elect to purchase COTS munitions not approved for munitions system management, but have received HC and NNMSB approval accept "cradle-to-grave" responsibility for the munitions at the local level, outside the MSA, to include final disposition of malfunctions (Duds), residue, and excess.

32.2.3.3.1. Disposition can be accomplished by contractual agreement with the manufacture, vendor or another independent contractor.

32.2.3.3.2. Munitions systems management disapproved munitions or munitions purchased without prior approval will not be managed through the MSA.

32.2.3.3.3. Disapproved system management munitions are managed and maintained by the owning/using organization, to include malfunctioned items, residue, excesses and final disposition/demilitarization.

32.2.3.3.4. COTS munitions and associated residue in this category will not be maintained, inspected, stored, accounted for, or disposed of through the Munitions Storage Area (MSA).

32.2.4. Hazard Classification (HC). HC includes assigning hazard class and division, compatibility group, United Nations (UN) number, and explosive weight.

32.2.4.1. HC must be assigned prior to placing munitions into operational service.

32.2.4.2. The Air Force Safety Center assigns final HC for Air Force munitions upon completion of formal testing and/or analysis IAW T.O. 11A-1-47, Chapter 4-10.

32.2.4.3. OO-ALC/WMOI is authorized to assign interim HC (IHC), IAW T.O. 11A-1-47, Chapter 7, and will consider approval of COTS munitions provided the requesting unit submits an approved data package with the following information IAW T.O. 11A-1-47, Chapter 7:

32.2.4.3.1. Item Nomenclature.

32.2.4.3.2. Part Number.

32.2.4.3.3. Prime Contractor.

32.2.4.3.4. Vendor.

32.2.4.3.5. National Stock Number (Unique contractor part numbers or product codes are allowed for interim hazard classifications).

32.2.4.3.6. System the item is associated with.

32.2.4.3.7. Next higher assembly item is used with.

32.2.4.3.8. Size of unpackaged item.

32.2.4.3.9. Weight of unpackaged item.

32.2.4.3.10. Explosive composition (MSDS).

32.2.4.3.11. Net Explosive Weight.

32.2.4.3.12. Physical description of item.

32.2.4.3.13. Functional description of item.

32.2.4.3.14. Packaging data.

32.2.4.3.15. Description of fuze safety features.

32.2.4.4. IHC will be issued for a period of one year.

32.2.4.4.1. Subsequent extensions may be granted provided the requesting unit provides complete justification and has developed and submitted data to OO-ALC/WMOI for obtaining final hazard classification IAW T.O. 11A-1-47.

32.2.4.5. COTS munitions packages disapproved for IHC or final HC will be returned to the requesting unit's MAJCOM and will not be forwarded to the NNMSB for safety certification.

32.2.4.6. COTS munitions with expired IHC will not be used until an extension or final HC is approved.

32.2.5. Non-Nuclear Munitions Safety Board (NNMSB) Certification. COTS munitions purchase request data packages will be reviewed by OO-ALC/WMOI for completeness to provide the NNMSB with sufficient information to certify COTS munitions for Air Force use. If additional data is required, NNMSB member(s) will coordinate through WMOI to the requesting unit.

32.3. Installation/Wing Approval Procedures.

32.3.1. To purchase COTS explosives and munitions, requesting unit will coordinate a package, using an AF Form 1768, **Staff Summary Sheet**, through the installation Munitions, Environmental, Safety, EOD, Transportation, and Legal agencies for Group and Installation Commander approval. Refer to **Figure 32.1.**

32.3.1.1. The package must then be submitted to requesting unit's MAJCOM for coordination and approval prior to forwarding to OO-ALC/WM. The AF Form 1768 will be signed by installation commander and include information identified for IHC and the following:

32.3.1.1.1. Quantity Requested.

32.3.1.1.2. Price.

32.3.1.1.3. Small arms: Muzzle velocity; chamber pressure; type of primer, propellant and projectile; projectile weight and size (9mm, 12 GA, etc).

32.3.1.1.4. Manufacturer's procedures for storage and handling.

32.3.1.1.5. Manufacturer's demilitarization and disposition instructions.

32.3.1.1.6. Complete justification and intended use statement (why current DoD or AF stock-listed items don't meet requirements and purpose).

32.3.1.1.7. Authorizing directive (AFI, message, letter, etc).

32.3.2. Once the COTS data package is established it must first be approved by the MASO. The MASO can approve the package for further coordination if the following conditions are met:

32.3.2.1. Requester has or will establish a custody account.

32.3.2.2. The item is not AF stocklisted.

32.3.2.3. An allocation does not exist for a suitable like item that is AF stocklisted.

32.3.2.4. If the item requested is stocklisted or has a suitable like item stocklisted, an Out-Of-Cycle Request (OOCR) must be submitted prior to attempting a COTS purchase request.

32.3.2.5. An OOCR has been disapproved.

32.3.3. The Environmental Flight, or local equivalent, will review COTS munitions MSDS and intended operational use to determine if item(s) contain compounds or materials deemed hazardous to personnel or the environment. Approval will include personnel protective measures and compensatory guidance on residue cleanup, processing and disposition, if environmental hazards exist.

32.3.4. Weapons Safety Officer, or local equivalent, will approve operating instructions and perform an initial and annual survey of locations and conditions under which COTS munitions are used, stored, maintained, and disposed of IAW: AFMAN 91-201; AFI 91-202, *The US Air Force Mishap Prevention Program;* AFI 91-205; T.O. 11A-1-47; T.O. 11A-1-60 and this publication. In lieu of T.O. 11A-1-60 processing, COTS munitions disapproved for munitions systems management will require locally contracted disposition or disposition procedures included in purchase agreement.

32.3.5. Explosives Ordnance Disposal (EOD) will ensure COTS munitions malfunctions can be safely cleared and processed and that adequate emergency notification and response procedures are included as part of the approved package sent to requesting unit's MAJCOM.

32.3.6. Transportation Management Office, or local equivalent, will ensure requested COTS munitions can be shipped to and from the installation via commercial and/or military carriers IAW T.O. 11A-1-47.

32.3.6.1. Specific restrictions and additional Department of Transportation (DOT) approval may apply for COTS munitions with interim hazard classification that require international shipment.

32.3.6.2. COTS munitions required for deployment must meet packaging requirements identified in AFI 24-202, *Preservation and Packaging* and can be processed IAW AFI 24-204.

32.3.6.3. Consider the need for proper shipping name, hazardous material declaration processing, and/or transportation deviation, waiver, or special shipping requirements when preparing items for shipment.

32.3.7. Legal Office will review the package for legal sufficiency to ensure COTS munitions procedures are authorized by state, federal, and international laws, or Status of Forces Agreements (SOFA) based on the location where purchase will occur and points of intended use.

32.3.8. Group Commander of requesting unit will review package and approve or disapprove based on requirement justification and package completeness IAW this publication.

Figure 32.1. Wing and MAJCOM COTS Munitions Processes.

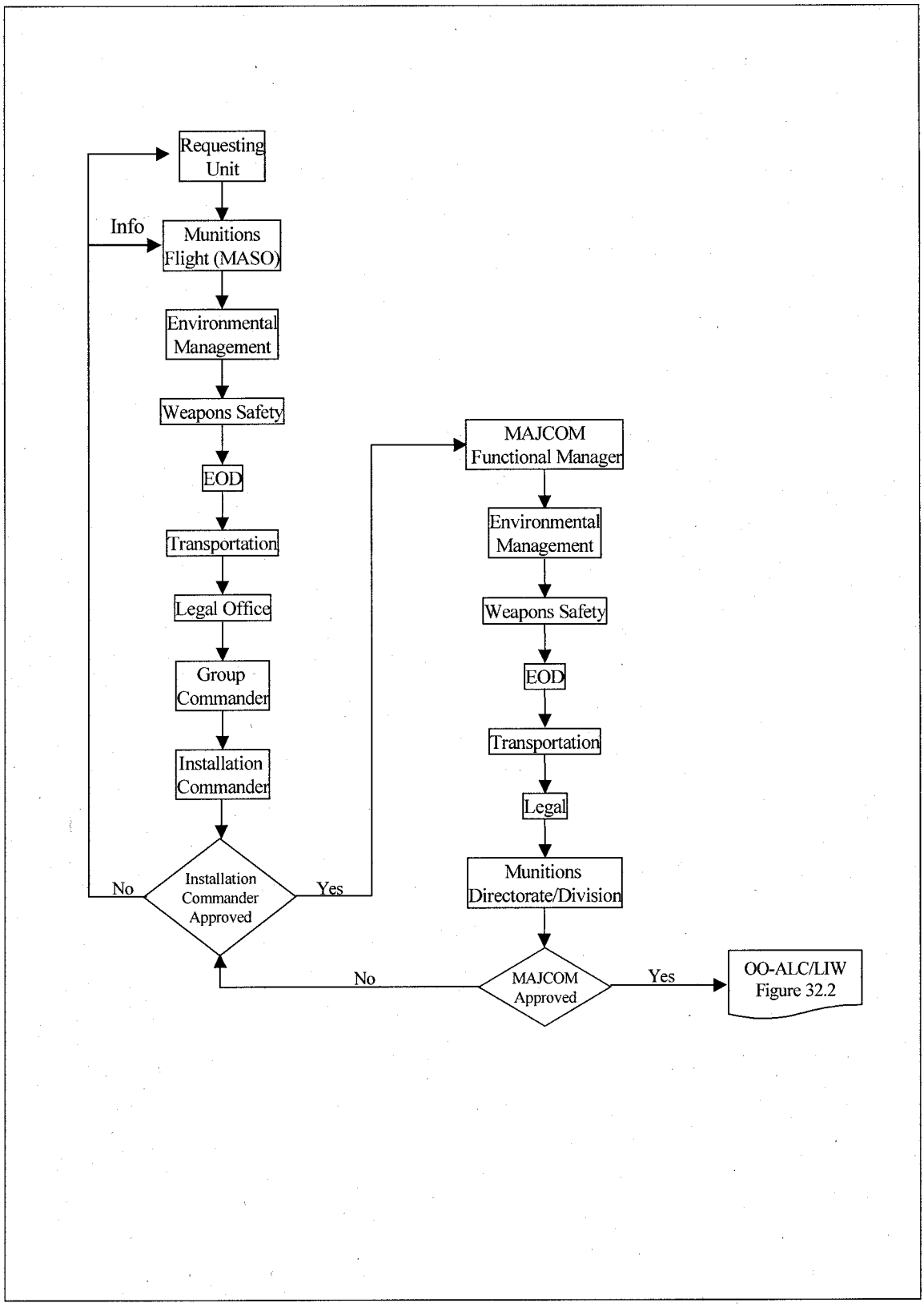
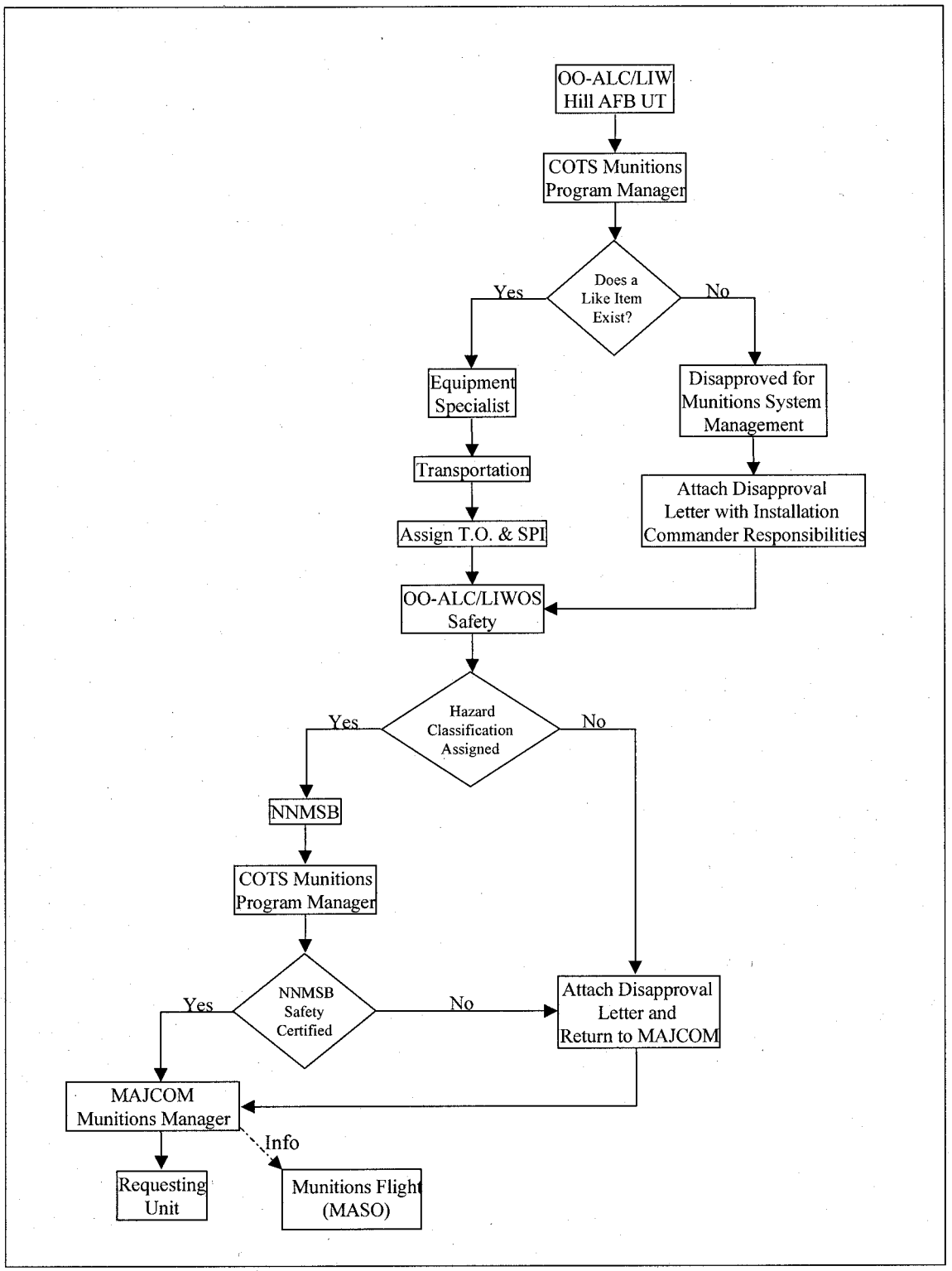


Figure 32.2. Munitions System Management, Hazard Classification and Safety Certification Processes



32.3.9. Installation Commander will be briefed on the "cradle-to-grave" responsibilities if requested COTS munitions are not approved for munitions system management. After receiving briefing and ensuring COTS munitions are fully justified and package is complete, installation commander will sign AF Form 1768 approve or disapprove the package for submission to requesting unit's MAJCOM.

32.4. MAJCOM Approval. MAJCOM coordination and approval process begins with the command Function Manager for requested munitions and is coordinated, using an AF Form 1768, through command Weapons Safety, EOD, Transportation, and Legal for final MAJCOM approval by the Munitions Directorate/Division prior to submission to OO-ALC/WM.

32.5. COTS Munitions Program Manager (CMPM) Approved Munitions. COTS Munitions approved for munitions system management by the CMPM will be picked-up on accountable records using an 'L' stock number (example: 1375L12345600) and managed using established instructions for other stocklisted munitions.

32.5.1. If purchased locally, munitions will be turned over to the MASO prior to being issued and placed in use.

32.5.1.1. If ordered from a vender/contractor, units will ensure the delivery destination is to the base munitions activity (FV account).

32.6. Operating Instructions. Units requiring COTS munitions will develop written operating instructions for items disapproved by the CMPM for munitions system management, but assigned an interim HC and receiving NNMSB safety certification.

32.6.1. Instructions for accountability, storage, handling, training, emergency procedures, and disposition of malfunctions (Duds), residue, and excesses will be included.

32.6.2. Safety instructions IAW AFMAN 91-201 will be established. Instructions will be approved through installation senior munitions manager, environmental, EOD, and weapons safety managers prior to purchasing the munitions.

32.7. Bird Aircraft Strike Hazard (BASH) Program.

32.7.1. BASH munitions must be approved by OO-ALC/WM and the NNMSB using the procedures prescribed in paragraph **32.2.** through **32.6.**

32.7.2. COTS munitions required for the BASH program may be purchased using the IMPAC under the following conditions:

32.7.2.1. Requesting unit must coordinate request with installation MASO and the OO-ALC/WM Local Purchase Program Manager (LPPM).

32.7.2.2. Requesting unit must have final written approval from OO-ALC/WM LPPM before any IMPAC purchase of the specified munitions item.

32.8. Air Force Competitive Shooting Program (AFCSP) Munitions Manage ment.

32.8.1. AFI 34-371, *Air Force Competitive Shooting Program* is the governing directive for the AF competitive shooting team. HQ AFSVA/SVPAF, HQ AF Services Agency, Director of Programs, AF

Fitness and Sports Branch, Randolph AFB TX 78216-4138, is the program director for the AFCSP. The AFCSP director obtains ammunition for Team Members by two methods:

32.8.1.1. Use DoD stocklisted assets obtained through the munitions forecast, allocation and distribution process IAW this instruction.

32.8.1.2. Use COTS munitions procedures to procure match grade ammunition when existing DoD stocklisted assets are not suitable. The director, using COTS procedures, centrally purchases annual munitions requirements.

32.8.1.2.1. Since COTS munitions are centrally procured directly from the manufacture, the AFCSP director may stockpile more than 90 days supply. These assets will be centrally managed by the AFCSP director.

32.8.1.2.2. COTS munitions for the AFCSP must be approved by the NNMSB and OO-ALC/WM IAW paragraph **32.2.** but will not have munitions system management under OO-ALC/WM.

32.8.2. Due to the unique requirements, the following responsibilities are established to ensure proper procurement, storage, serviceability, distribution, accountability and disposition of AFCSP COTS munitions.

32.8.2.1. The director will:

32.8.2.1.1. Obtain approval from NNMSB for all COTS munitions prior to procurement.

32.8.2.1.1.1. Provide NNMSB approved list, with hazard class division, of all items for AFCSP use to 37 SUPS/LGSK and all servicing munitions activities.

32.8.2.1.2. Ensure only small arms ammunition is procured.

32.8.2.1.2.1. Use AF Form 9, **Request for Purchase,** procedures and NOT the IMPAC Card.

32.8.2.1.2.2. Centrally procure munitions and direct shipments to 37 SUPS/LGSK, Lackland AFB TX to be assigned a local stock number and picked up on accountable records IAW paragraph **32.8.2.2.1.**

32.8.2.1.3. Provide shipping (redistribution) instructions to 37 SUPS/LGSK to include:

32.8.2.1.3.1. Local assigned stock number, quantity, destination (FV, servicing munitions activity) and using AFCSP Team Member(s).

32.8.2.1.3.2. Funds cite for shipment costs.

32.8.2.1.4. Provide a message to 37 SUPS/LGSK and servicing munitions activities with the following information:

32.8.2.1.4.1. Local assigned stock number and yearly quantity authorized and allocated to each team member.

32.8.2.1.4.2. List of all authorized team members with name, rank, SSAN, organization and DSN.

32.8.2.1.4.3. Local assigned stock number and maximum amount of munitions each team member may withdraw at one time.

32.8.2.1.5. Establish written procedures for Restricted/Suspended ammunition. These procedures will include as a minimum:

32.8.2.1.5.1. Notification of any ammunition malfunction by team members to HQ AFSVA/SVPAF.

32.8.2.1.5.2. Notification to all servicing munitions activities on Restricted/Suspended ammunition.

32.8.2.1.5.3. Disposition of Restricted/Suspended ammunition.

32.8.2.1.6. Develop procedures for the proper disposition of excess/unused ammunition.

32.8.2.1.7. Retain "cradle-to-grave" responsibility for COTS munitions.

32.8.2.1.7.1. Provides fund cite for any costs required for the proper disposition of unserviceable ammunition.

32.8.2.1.8. Provide a copy of MSDS for all ammunition stored at or transiting Lackland AFB TX.

32.8.2.1.9. Provide redistribution orders with shipping fund cite to servicing munitions activity, if required.

32.8.2.2. The 37 SUPS/LGSK, Lackland AFB TX is the central munitions activity for stockpiling AFCSP ammunition and preparing shipments. The 37 SUPS Munitions Flight will:

32.8.2.2.1. Receive ammunition from manufacturer.

32.8.2.2.1.1. Use the CAS IDR shell record (ISD25A IAW AFCSM 21-824, Vol 2, *Combat Ammunitions System -Base: Software Users Manual,* Chapter 16) to load local stock number into CAS. Local stock numbers will be designed as follows:

32.8.2.2.1.1.1. Positions 1-4 will be stock class "1305".

32.8.2.2.1.1.2. Positions 5-6 will be "ST" (indicates shooting team ammo).

32.8.2.2.1.1.3. Positions7-9 will be caliber/gauge, i.e., .22 cal will be 022, 7.62 mm will be 762, 12 gauge will be 012, etc.

32.8.2.2.1.1.4. Positions 10-15 will be abbreviated nomenclature, i.e., MATCHGD, OLYMPI, SPAUTO, RAPFIR, etc.

32.8.2.2.1.1.5. Some typical examples are:

32.8.2.2.1.1.5.1. 22 cal rapid-fire ammunition would be "1305ST022RAPFIR".

32.8.2.2.1.1.5.2. 38 cal Special Auto ammunition would be "1305ST038SPAUTO".

32.8.2.2.1.1.5.3. 410 gauge Target ammunition would be "1305ST410TARGT".

32.8.2.2.1.1.5.4. 22 cal long rifle would be "1305ST022LNGRFL".

32.8.2.2.1.1.5.5. 7.62 mm match grade ammunition would be "1305ST762MATCHGD".

32.8.2.2.1.2. Receive assets in CAS and once on record, all accountability requirements in this instruction and other DoD instructions governing ammunition apply. If items do not

have an assigned Lot # from the manufacturer, assign and mark all containers with a lot number using the example in T.O. 11A-1-10.

32.8.2.2.1.3. Provide a listing of local assigned stock numbers and nomenclature to all servicing munitions activities.

32.8.2.2.1.4. Items will be treated as like DoD stocklisted items and will be inspected, stored, and shipped as small arms ammunition (T.O. 11A-13-10-7, *Specialized Storage and Maintenance Procedures, Small Arms Ammunition)* unless otherwise directed.

32.8.2.2.2. Prepare and ship assets as directed by AFCSP director.

32.8.2.2.2.1. Assets will be shipped in QUP as received from the manufacture.

32.8.2.2.2.2. Use existing DoD like item SPI.

32.8.2.2.2.3. Stamp (or print) “For AFCSP Use Only” on shipping documents.

32.8.2.2.3. Requests disposition from AFCSP director for excess/unused munitions.

32.8.2.3. The Servicing Munitions Activity will:

32.8.2.3.1. Receive assets using the local assigned stock number on the shipping document.

32.8.2.3.1.1. Use the CAS IDR shell record (ISD25A IAW AFCSM 21-824, Vol 2, *Combat Ammunitions System -Base: Users Manual*, Chapter 16) to load local stock number into CAS.

32.8.2.3.1.2. Assets will be maintained and accounted for IAW this instruction and applicable technical data.

32.8.2.3.2. When requested by authorized AFCSP Team Member, establish a custody account IAW this instruction.

32.8.2.3.2.1. Use authorized/allocated quantities per AFCSP Team Member to load levels in CAS.

32.8.3. Regardless of how the ammunition was initially procured, all AFCSP Team Members will:

32.8.3.1. Request custody accounts from the servicing munitions activity and perform all required actions IAW this instruction.

32.8.3.2. Comply with all explosive safety requirements in AFMAN 91-201, *Explosives Safety Standards.*

Chapter 33

WAR RESERVE MATERIEL (WRM)

33.1. General Guidance.

33.1.1. WRM munitions are required to support wartime activities listed in the USAF War and Mobilization Plan (WMP) until the industrial base meets wartime demands. They are prepositioned ahead of time at operating bases, disperse WRM in areas of responsibility, place assets on AFLOAT Prepositioned Fleet and store WRM at selected locations and depots for air deployment.

33.1.2. MAJCOM munitions staff will provide units with WRM munitions positioning objectives for wartime requirements.

33.2. References.

33.2.1. War and Mobilization Plan, Volume 1, (WMP-1) outlines basic war and mobilization policies.

33.2.2. War and Mobilization Plan, Volume 3, (WMP-3) gives force disposition and availability based on Air Force programs and the Joint Strategic Capabilities Plan (JSCP).

33.2.3. War and Mobilization Plan, Volume 4, (WMP-4) Wartime Aircraft Activity (WAA), portrays (by operating location) planned aircraft activity that implements each approved aircraft deployment, employment, and support operation plan.

33.2.3.1. Use WMP-4 sortie data to produce the annual WCDO. The authorized WRM is limited by the availability and allocation of the worldwide stockpile (near-year prepositioning objective identified in the NCAA) and is further limited by the number of funded sorties (WMP-5).

33.2.3.2. The WMP-4 arrays the WMP-5 funded theater sorties down to individual units.

33.2.4. War and Mobilization Plan, Volume 5, (WMP-5) outlines basic planning factors and reflects sortie and flying hour data for use in planning war and mobilization requirements. It represents the approved and funded HQ USAF position on sortie rates, duration, and flying-hour requirements by mission design series to support the US Air Force programmed and mobilization force levels.

33.2.5. The NCAA is the process, which identifies Air Force requirements for conventional air munitions and associated war consumables for the Six-Year Defense Plan. Constrained Inventory Objectives (CIO) are calculated for the near year and out year periods for each theater as well as in support of Two MTWs. Total Munitions Requirements (TMR) as defined in the Capabilities Based Munitions Requirements (CBMR) Process are also calculated to support combat operations in the Two MTWs. The NCAA documents the calculations, assumptions, and methods used to compute these requirements. Theaters threat models, WMP-5 sorties, theater expenditure per sortie factors (EPSF), and safety factors all influence munitions computations. NCAA requirements are used thoughtout the planning/programming process to aid in identifying how each type item should be stockpiled by the end of the planning period to achieve Air Force objectives.

33.2.6. The TAMP and DLAR identify munitions requirements, applicable theater allocations, and out-year planning levels by MAJCOM.

33.2.7. The Air Force Munitions Security Classification Guide provides instructions and guidance on classifying information that is used, controlled, or produced from manual or automated munitions systems.

33.3. War Consumables Distribution Objective (WCDO) Process.

33.3.1. The WCDO serves as the official document portraying munitions requirements. It contains authorizations for each munitions item required supporting OPLAN execution.

33.3.2. The WCDO authorizations are constrained to the DLAR and TAMP allocations. The DLAR is constrained to the NCAA document. There is a reconcilable audit from the NCAA to the DLAR to the command WCDO and vice versa.

33.3.3. Operations, plans and intelligence functions cooperate to produce the WCDO requirements. The MAJCOM munitions function does not establish munitions requirements.

33.3.4. The Munitions Flight Chief evaluates WRM positioning objectives and briefs the OG and LG on the following:

33.3.4.1. Shortfalls and excesses.

33.3.4.2. Limiting factors.

33.3.4.3. Problems.

33.3.4.4. Posture by complete round and component.

33.3.5. WRM Distribution and Realignment is performed through the GAP process.

33.4. WRM Munitions Financial Accounting.

33.4.1. The MAJCOM munitions function is the command WRM commodity manager for WRM munitions and develops the command PEC 28030 WRM munitions budget.

33.4.1.1. The MAJCOM, in coordination with its FMB, distributes WRM funds to authorized base-level activities, monitors fund disbursement and expenditure and recommends changes in reprogramming.

33.4.1.2. The MAJCOM validates unit unfunded or unprogrammed requirements.

33.4.1.3. Refer to AFI 25-101, *War Reserve Materiel (WRM) Program Guidance and Procedures*, for additional guidance.

33.5. WRM Munitions Program Element Code PEC 28030.

33.5.1. PEC 28030 identifies WRM operations and maintenance (O&M) costs for WRM munitions budgeting and funding purposes.

33.5.2. This PEC does not include costs associated with acquiring stock fund inventory or investment assets. Use other PECs, such as 27596 (base operating support) and 87792 (medical), when charging costs that cannot be directly attributed to the WRM requirement or its support.

33.5.3. Use PEC 28030 to identify only those O&M costs that support WRM munitions.

33.5.4. Costs of procuring, maintaining, storing, preserving, and administering the munitions WRM program are chargeable to PEC 28030. Any costs incurred in administering these stocks are subject to PEC 28030 accounting, including:

33.5.4.1. Daily operating support.

33.5.4.2. Travel.

33.5.4.3. Transportation.

33.5.4.4. Equipment (to include ADPE).

33.5.4.5. Administrative and janitorial supplies.

33.5.4.6. Within the munitions organization, especially those that maintain WRM stocks and peacetime training munitions, set up separate financial infrastructures to program and track O&M expenses related to each administration cost.

33.5.5. Excluded from PEC 28030 funding are costs included in the applicable civil engineer PECs and activities not directly related to WRM munitions programs such as:

33.5.5.1. Costs for daily operating support, travel, transportation, disposition, equipment, administrative, and janitorial supplies.

33.5.5.2. Purchase of mobility equipment.

33.5.5.3. Repair or maintenance of a facility containing only WRM munitions (these are property maintenance expenses).

33.5.5.3.1. O&M costs directly related to facilities storing only WRM munitions can be funded on a case by case basis if funding is available when approved by the MAJCOM LG.

33.6. Submitting Program Element Code (PEC) 28030 Budget.

33.6.1. Units with PEC 28030 requirements develop and submit budget forecasts per MAJCOM direction. Units include PEC 28030 requirements in the base financial plan.

33.6.2. The MAJCOM munitions function uses unit input to develop a budget for all command WRM munitions requirements.

33.6.3. MAJCOM munitions function reviews PEC 28030 inputs for accuracy, adequacy and completeness, then sends a consolidated input to the MAJCOM FMB.

33.6.4. The MAJCOM FMB, along with the MAJCOM munitions function, distributes WRM funds to base-level activities. The directorate of munitions advises OG or LG commanders, and WRM munitions manager, of PEC 28030 funding disbursement.

33.6.5. After the FMB allocates funds, the PEC 28030 functional managers closely monitor fund expenditure to ensure fulfillment of WRM munitions maintenance requirements. Each commander of munitions activities oversees expenses charged to PEC 28030.

33.6.6. Resource advisors and resource managers ensure base supply funds management and base budget personnel properly establish expenditure tracking through the applicable PEC so only authorized users charge expenses to PEC 28030.

33.7. Unfunded Requirements.

33.7.1. If unprogrammed WRM requirements occur during the fiscal year, base functional agencies identify them to the WRM munitions manager along with full justification for presentation to the WRM executive review board or FRB.

33.7.2. If existing base funds cannot absorb the new requirement, the WRM executive review board or FRB prioritizes the requirement and forwards to the MAJCOM FMB who in turn forwards to the munitions division for validation.

33.7.3. The base budget for the fiscal year (FY) includes in any unfunded requirements that extend into the next FY. When possible, include in the budget adjustment provisions for any unfunded requirements you identify after budget submittal.

33.7.4. Units identify all unfunded or unprogrammed WRM requirements for funding consideration. The MAJCOM munitions functional manager helps units develop their inputs when necessary and represents or defends munitions requirements at MAJCOM level during the FMB scrubbing process.

33.8. Planning Logistics Support.

33.8.1. All US Air Force war or contingency plans must contain a logistics annex sufficiently detailed to enable personnel to support the planned operation immediately and efficiently. MAJCOMs develop a munitions appendix to this annex.

33.8.2. Component services manage logistics support. Each service determines its requirements and budgets for necessary commodities. When produced, munitions and missiles become stock, owned by the individual service component.

33.8.3. Unified commands, such as USCINCEUR and CINCPAC, are not responsible for logistics support of assigned forces. However, on execution of a unified OPLAN (for example, USCINCEUR 1202, CINCPAC 5027), the unified commander assumes directive authority over all components stocked within the operating theater.

33.8.4. MAJCOMs provide logistics support at and below wing or base level for assigned units.

33.8.5. Where units are tenant, staging on or through, dispersing or operating from, or otherwise using installations assigned to other commands, the commander with jurisdiction over the installation provides logistics support as agreed between the major commanders concerned.

33.8.6. Tenants coordinate support requirements with hosts before publishing any plan that commits host resources.

33.8.7. Supported commands develop plans to receive and support augmenting forces. They provide all requirements for planned enroute and beddown locations to facilitate reception and support planning.

33.8.8. MAJCOMs help unified commands assess reserve stocks of involved allies to identify potential US Air Force support requirements.

33.8.9. MAJCOMs help AFRC and ANG gained units (including air defense units) compute requirements, store and preposition materiel, and prepare for activation and deployment, as appropriate.

33.8.10. HQ AMC and HQ ACC advises OCONUS commands of additional logistics support required for operations in the overseas area to ensure enough storage and maintenance capability.

Using commands coordinate with storing commands before acting to preposition any materiel or changing pre-positioning in WMP-4 which would increase the storage of consumables.

33.8.11. The SMCA also plays a major role in the munitions resupply of US Air Force units. A significant amount of Air Force munitions are stored in continental United States (CONUS) Army depots.

33.9. Planning for Munitions Movement.

33.9.1. When unable to store WRM munitions at or near the employment base, units may hold prepositioned munitions in central storage areas, theater storage facilities, or at other operational bases. In these cases, develop detailed plans to move stocks to where they are needed at wartime operating locations.

33.9.2. OPLANs may direct combat aircraft to deploy with munitions aboard; for example, air-to-air missiles, 20mm or 30mm, chaff and flares. MAJCOMs reflect all movements of this type in OPLANs as well as logistics movement plans. Execution of the OPLAN activates this phase of munitions relocation.

33.9.3. MAJCOMs optimize pre-positioning at planned operating bases given sortie production requirements, threat and storage and transportation capabilities.

33.9.4. MAJCOMs and Numbered Air Forces track munitions requirements and distribution. They initiate munitions movements not already covered by tactical movement. MAJCOM ACPs and Regional ACPs serve as consolidated command points of contact with inter-theater and intra-theater support organizations.

33.10. MAJCOM Command Overflow and PACER FLEX.

33.10.1. HQ USCENTAF, HQ AFSOUTH, HQ PACAF, HQ ACC, TACPs and HQ USAFE must identify to OO-ALC/WM how much of each unit's WRM munitions requirements come from CONUS stocks or production.

33.10.2. Once MAJCOMs determine these shortfalls, they submit them to OO-ALC/WM for sourcing.

33.10.3. OO-ALC/WM:

33.10.3.1. Sources MAJCOM shortfall requirements, assures TPFDD transportation support, and publishes an approved USAF support plan for each MAJCOM OPLAN.

33.10.3.2. Coordinates support plans with the affected operational command.

33.10.3.3. Satisfies the planned requirements of the operational commands as far as possible, including worldwide redistribution and asset realignment, and delivery of substitute munitions when preferred assets are not available.

33.10.3.4. Ensures command overflow and PACER FLEX shipments reflect the following:

33.10.3.4.1. Receiving SRAN/DoDAAC.

33.10.3.4.2. Shipping SRAN/DoDAAC (when possible).

33.10.3.4.3. Sequence of execution.

33.10.3.4.4. Required delivery date (RDD).

33.10.3.4.5. Port of embarkation (POE).

33.10.3.4.6. Port of debarkation (POD).

33.10.3.4.7. Type of movement.

33.10.3.5. Develops support plans based on approved time-phased requirements. These requirements come from the WAA file approved for the planned year.

33.10.3.5.1. Includes outload and receipt capacity of break bulk points, ports, and receiving units in support plans to ensure all the munitions that are scheduled to arrive within a specified time period can be off-loaded and stored for use.

33.10.4. All executing activities maintain plans with changes as they occur. They must ensure current and executable information is available to the SMCA, OO-ALC/WM, MAJCOMs, and shipping and receiving units. For example, when a command calls forward an item into the theater of operation, the executing activity accordingly reduces the command overflow and PACER FLEX.

33.11. Shipping Munitions.

33.11.1. Commands submit call-forward for munitions to OO-ALC/WM.

33.11.2. OO-ALC/WM:

33.11.2.1. Schedules shipment in coordination with HQ Army Armament Munitions and Chemical Command (AMCCOM) and commensurate with MAJCOM RDDs.

33.11.2.2. Consolidates requirements into shipload segments and asks to have a ship brought on berth on the date necessary to meet the munitions' RDD.

33.11.2.3. Submits the request to HQ AMCCOM, SMCA and the MTMC area command, which in-turn submits the actual ship request to MSC.

33.11.2.4. Dispatches the ship planning message to the various activities, listing the munitions call-forward planned for a given ship and estimated overseas arrival date.

33.11.3. The ship planning message serves as a cargo offering to MTMC for routing purposes. MTMC automatically releases the requisitioned items for movement from the supply source to the scheduled vessel and port.

33.11.4. The various plants and depots transmit a report of shipment (REPSHIP) to the consignee and all concerned on the planning message.

33.11.5. The REPSHIP provides detailed data the planner and the consignee need to prepare for receipt.

33.12. Standard Logistics Packages.

33.12.1. STAMP enables selected tactical air units to deploy rapidly and operate from locations without prepositioned munitions. Sortie rates and configurations dictate the period of support.

33.12.2. In addition to STAMP, USAF has configured APFs to give commanders greater deployment flexibility by reducing early airlift requirements. APF allows munitions to move rapidly from one region to another as priorities or circumstances dictate.

33.13. War Reserve Stocks for Allies (WRSA).

33.13.1. WRSAs comprise US military service-owned stocks intended for use only in emergencies to make up for shortfalls in allied ATOs. Higher headquarters must release WRSA to allies during peacetime.

33.13.2. Agencies controlling WRSA and memorandum of understanding (MOU) stocks use these guidelines when developing joint operating instructions with allied nations.

33.13.3. Manage WRSA assets on a separate stock record account, because item prices are constrained to the item's original acquisition cost or the approved negotiated WRSA price.

33.13.3.1. Manage the WRSA inventory as other Air Force WRM munitions.

33.13.3.2. Apply the same security measures to WRSA authorizations, levels, quantities and other parameters as you would to WRM.

33.13.3.3. Keep WRSA at allocated levels.

33.13.3.4. Identify shortfalls to the MAJCOM for resolution.

33.13.3.5. WRSA stock will be segregated from the USAF stockpile whenever storage space is available. If munitions must be commingled, WRSA stock will be appropriately identified.

33.13.3.6. Never use WRSA assets to satisfy other requirements (RDO, training, etc.) without MAJCOM approval. Report to the owning MAJCOM any action initiated at the local level that changes the identity or serviceability of WRSA assets.

33.13.3.7. When the regional ACP asks the Theater Ammunition Control Point (TACP) to release WRSA stocks, the TACP may transfer assets either in-mass to the allied user or selectively based on allied air tasking orders (ATO) shortfalls. Restrictions on the release of items:

33.13.3.7.1. Do not release munitions excluded by MAJCOM (such as air intercept missiles) without MAJCOM approval.

33.13.3.7.2. Do not exceed dollar value (congressional authority) assigned to the WRSA.

33.13.3.7.3. Stop releasing WRSA assets when you reach the assigned dollar value. Obtain release authority and process additional requirements through FMS.

33.13.3.8. When WRSA release notification is received from the appropriate authority, assets can be either transferred in-mass or selectively based on allied ATO shortfalls.

33.13.3.9. Apply the MOA or other authorizing document between the US Government and the allied country when selling assets designated as WRSA in a military emergency.

33.13.3.10. Proper authority may direct munitions accounts to release munitions other than WRSA under a follow-on MOU to support allied shortfalls.

33.13.4. Release or Transfer Procedures. On receiving a RDO for WRSA or MOU release, affected bases prepare two sets of DD Form 1348-1-4PT in accordance with AFMAN 23-110 for all FMS transactions. Bases complete both sets reflecting data required in columns 1 through 80, item nomenclature (in block X), and weight and cube. Include the dollar amount of individual items and total costs. Distribute documents as follows:

33.13.4.1. Set One:

33.13.4.1.1. Copies numbers 1 and 6: Retained by the distribution point (shipper).

33.13.4.1.2. Copies numbers 2 and 3: Placed inside the number 1 shipping container.

33.13.4.1.3. Copy number 4: Placed inside the packing list envelope attached to the outside of the number 1 container.

33.13.4.1.4. Copy number 5: Sent to the activity designated in the, DoD Manual 4000.25-8, *Military Assistance Program Address Directory (MAPAD),* to receive the DD Form 1348-1-4PT.

33.13.4.1.5. When selecting and prepacking containers for shipment, insert copies numbers 2, 3, and 4 in the packing list envelope on the outside of the container. On consolidated shipments, attach copies numbers 2 and 3 to the shipment pack for each individual requisition and place copies inside the number 1 shipping container.

33.13.4.2. Set Two:

33.13.4.2.1. Notice of availability required. Mail six copies to the address designated in MAPAD, DoD Manual 4000.25-8, as the recipient of the notice of availability.

33.13.4.2.2. Notice of availability not required. Airmail six copies to the address designated in MAPAD, DoD Manual 4000.25-8, as the recipient of DD Form 1348-1-4PT.

33.13.4.2.3. For Canada, airmail the second set along with one copy of Department of Commerce (DC) Form 7525V, **Shipper's Export Declaration**, to the consignee indicated in the supplementary address, DD Form 1348-1-4PT. Subject form is available through your local TMO.

Chapter 34

DEPLOYED MUNITIONS MANAGEMENT

34.1. Transferring Munitions for Deployment Support.

34.1.1. When deploying to a location with an established SRAN/DoDAAC for longer than 30 days, transfer accountability of munitions to the gaining MASO. If the deployment is originally planned for less than 30 days, but extends beyond, the losing MASO coordinates with the gaining MASO to transfer accountability of deployed munitions.

34.1.1.1. If deploying assets are on custody accounts and time does not permit actual turn-in and shipment, custodians will turn in (paperwork transaction only) the munitions on their account which they deploy with. They obtain a shipment document(s) from the home station MASO and give it to the MASO at the deployed location. If time does not allow custodians to obtain the shipment document to take with the munitions, the losing MASO mails the document(s) to the gaining MASO.

34.1.1.2. The command having jurisdiction over the Area of Responsibility (AOR) may waive transfer of accountability.

34.1.2. When deploying to a location without an established SRAN/DoDAAC for longer than 30 days, accountability for deployed assets will be retained by the deploying unit custody account.

34.1.3. USAF members who are deploying and without an established munitions custody account will contact the MASO to receive small arms ammo for weapons being hand carried. The MASO will process a shipment document with the ship to location SRAN/DoDAAC if known (this includes any Department of Defense Activity Address Code). Use FV9999 if SRAN/DoDAAC is unknown.

34.1.3.1. The following statement will be on the back of the shipment document and briefed to the member by the MASO: "Small arms munitions will be controlled and the person receiving the munitions must maintain accountability and lot number integrity for these assets. The shipping document and munitions will be turned in to the Air Force munitions storage area at the deployed location. If a storage area has not been established, member will retain accountability for these assets. Member will document on the back of the shipment document if assets are expended or turned over to any other military storage area (Army, Navy, etc.). If turned over to a military authority, member will receive documentation showing who accepted accountability for the assets (name, rank, SSAN, organization, home base DSN). This documentation will be given to the home station MASO upon return from deployment".

34.2. Mobility Munitions Accounts.

34.2.1. Limit the number of mobility munitions custody accounts to expedite deployment processing and ensure an accurate transfer of accountability.

34.2.2. Limit custody accounts to one per aircraft squadron and one per separate residual force (i.e., PRIME BEEF, security police, supply, hospital).

34.2.3. You may establish a base support custody account to consolidate and control several smaller unit requirements. The MASO and local wing logistics plans function coordinate closely to properly establish deployment custody accounts.

34.2.4. Do not requisition replacements for assets deployed from home station.

34.3. Accounting for Contingency Support Munitions.

34.3.1. Account for deployed munitions by NSN, lot or serial number, quantity, and condition code. Munitions items are accounted for until they are expended, installed, turned in or removed from Air Force stock according to the guidance in this instruction.

34.3.2. The AOR may establish a TACP and/or Regional Ammunition Control Point (RACP). These agencies inform deployed munitions units of the Munitions Operations SRAN/DoDAAC for their respective deployed location. If a TACP/RACP is established, the following responsibilities apply:

34.3.2.1. Maintains asset inventory data for the AOR.

34.3.2.2. Monitors AOR requirements.

34.3.2.3. Repositions assets within the AOR as required.

34.3.2.4. RACP will assume TACP responsibilities should the TACP become inoperable.

34.3.3. If a MASO is not appointed at the deployed location, the deployed Squadron Commander of the host Munitions Flight appoints the senior 2W0X1 or Munitions Flight Chief (enlisted or officer) as the MASO.

34.3.4. Responsibility for accurate accounting and reporting of all munitions located at the deployed or prepositioned location rests with the MASO.

34.3.4.1. The deploying unit MASO advises the gaining unit MASO of the quantity and types of munitions deployed. The MASO at the deployed location issues required munitions. The MASO receives and retains in storage all munitions not needed by operational units.

34.3.5. Deployed organizational commanders with munitions will establish custody accounts.

34.3.5.1. The organizational commander identifies personnel authorized to request and receipt for munitions by submitting an AF Form 68 to the MASO.

34.3.6. The organizational custodian identifies all munitions requirements, and on-hand or in-use munitions, and accurately accounts for munitions on custody records. This also includes gains or losses of munitions while in-transit. The MASO sends MILSTRIP requisitions for authorized munitions to the TACP or RACP, who in turn forwards the requests to OO-ALC/WM.

34.3.7. Individuals who deploy with munitions must contact the munitions custodian of their deployed organization to ensure that assets in their possession are picked up on custody account records.

34.3.8. The custodian retains full responsibility for the munitions until the assets are returned to the home station custodian, or the gaining base assumes accountability.

34.3.9. Combat Ammunition System-Deployable (CAS-D). When deploying to locations with an USAF SRAN/DoDAAC, but not supported by CAS-B, units will use CAS-D to account for and report munitions.

34.3.9.1. The MASO will include CAS-D procedures (i.e., inventory, document control/flow, issues, etc.) in their CMP.

34.3.10. Contingency Reports. The TACP, or RACP, tells the MASO what type of reports to submit, when to submit them and how to send the reports to the TACP or RACP. MASOs may be directed by implementation message to initiate the RCS: HAF-LGX (AR)-7124, **Items of Special Interest Report (ISIR)**, IAW AFMAN 10-206. This report is for short-term contingencies, emergencies or exercises.

Chapter 35

AUTOMATED SYSTEM MANAGEMENT

35.1. Reserved for Future Use

Chapter 36

CONVENTIONAL MUNITIONS STATIC DISPLAY PROCEDURES

36.1. Static Display Munitions (SDM)

36.1.1. Munitions may be placed on permanent, fix static display around munitions storage areas and installations to build esprit de corps and to improve overall appearance. This does not include inert munitions used for open houses, Ammunition CAPSTONE Course, change of command ceremonies, static display munitions approved through the AF Museum Program or in a training environment. Inert items required for training will be forecasted, allocated and issued to custody accounts as required by this instruction. The flight chief may approve the use of existing inert trainers for temporary static displays IAW AFMAN 91-201 and applicable item T.O.

36.1.1.1. The condition and appearance of SDMs is a reflection of the Air Force, individual units and the Ammo community, and must be maintained in superior condition.

36.1.1.2. Only unserviceable non-repairable and worldwide excess inert/empty certified munitions will be approved for static display.

36.1.2. Approved items will be permanently stamped or etched with a unit specific SDM identifier number consisting of the acronym SDM, unit SRAN/DoDAAC, and a 3-digit number assigned by the unit is numerical sequence. For example, the first request from Osan AB, Korea for three inert MK-82s would be marked SDM-FV5284-001 through SDM-FV5284-003.

36.1.3. SDMs will be secured to platforms in a manner that prevents removal of the complete round or any attached sub-components.

36.2. Request Procedures.

36.2.1. The Munitions Flight Chief will submit an ADR to OO-ALC/WM requesting SDM authorization.

36.2.1.1. The following statement must be made in the “Reason for Reporting” block and signed by the Munitions Flight Chief: “Request the munitions listed on this document be retained for static display. I certify the munitions listed are unserviceable, non-repairable for operational use, and free of explosives and explosive residue. The munitions will be marked SDM-FVXXXX-000 through SDM-FVXXXX-000 IAW AFI 21-201, Chapter 36 and placed on permanent, fixed static display within 90 days of receipt of approval”.

36.2.1.2. All unserviceable defects must also be listed on the ADR.

36.2.1.3. The ADR will identify the organization requesting the SDM. If approved, this organization will be the owning organization and responsible for the inspection, appearance and maintenance of the SDM.

36.2.2. Item Manager and Equipment Specialist will review requests, make worldwide excess and/or non-repairable determinations, and approve/disapprove requests.

36.2.3. If approved, munitions will be inventory adjusted from accountable records by the MASO and tracked by ADR and SDM numbers.

36.2.3.1. The ADR is used as proof of authorization to adjust accountable records.

36.2.3.2. Final display location (i.e., entry to bldg XXX, MSA Main gate, static display aircraft at west gate, etc.) will be annotated on all copies of the approved ADR.

36.2.4. Munitions not placed on permanent display within the specified 90-day timeframe will again be reported on AF Form 191 for final disposition.

36.3. SDM Maintenance and Final Disposition.

36.3.1. Munitions on static display will be maintained in such condition so it reflects favorable upon the responsible unit and the USAF.

36.3.1.1. Munitions will be visually inspected at least annually for appearance, platform mounting safety, and overall serviceability.

36.3.1.2. OO-ALC/WM retains the option to have units remove such static displays if not maintained in a fitting condition.

36.3.2. Munitions removed from static display will be returned to accountable records via a found on base (FOB) turn in and reported on an ADR for final disposition. SDM numbers will be reported for each item removed from static display.

36.4. Historical/Archival Records. The Munitions Flight, owning organization and OO-ALC/WM will maintain copies of original SDM ADRs for the entire period munitions are on static display.

36.5. Forms Prescribed:

36.5.1. AF Form 68, **Munitions Authorization Record.**

36.5.2. AF Form 191, **Ammunitions Disposition Request.**

36.5.3. AF Form 2427, **Key and Lock Control Register.**

36.5.4. AF Form 2432, **Key Issue Log.**

36.5.5. AF Form 4147, **Munitions Movement Control Sheet.**

36.5.6. AFTO Form 15, **Airmunitions Serviceability and Location Record.**

36.5.7. AFTO Form 102, **Munitions Inspection Document.**

Chapter 37

MUNITIONS CONTINGENCEY SOURCING, EXPENDITURES AND REPORTING PROCEDURES

37.1. Reserved for Future Use

MICHAEL E. ZETTLER, Lieutenant General, USAF
DCS/Installations and Logistics

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

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Title 49, Code of Federal Regulation, *Hazardous Materials Regulation of the Department of Transportation*

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DoD 4160.21-M, *Defense Materiel Disposition Manual*

DoD 5000.2-R, *Mandatory Procedures for Major Defense Acquisition Programs (MDAPS) and Major Automated Information System (MAIS) Acquisition Programs*

DoD 5100.76-M, *Physical Security of Sensitive Conventional* Arms, *Ammunition, and Explosives*

DoD 5160.65, *Single Manager for Conventional Ammunition*

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MIL-HDBK-138A, *Container Inspection Handbook for Commercial and Military Intermodal Containers*

AFI, 10-215, *Personnel Support for Contingency Operations*

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AFI, 10-404, *Base Support Planning*

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AFCAT, 21-209, *Ground Munitions*

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AFI, 25-101, *War Reserve Materiel (WRM) Program Guidance and Procedures*

AFI, 25-201, *Support Agreement Procedures*

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AFH, 31-223, *The Air Force Resource Protection Program*

AFI, 31-401, *Information Security Management Program*

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AFI, 91-202, *The US Air Force Mishap Prevention Program*

AFI, 91-204, *Safety Investigations and Reports*

AFI, 91-205, *Non-nuclear Munitions Safety Board*

AFI, 91-213, *Operational Risk Management Program*

AFI, 91-301, *AF Occupational and Environmental Safety, Fire Prevention and Health (AFOSH) Program*

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T.O. 00-5-1, *AF Technical Order System*

T.O. 00-5-2, *Technical Order Distribution Sy*stem

T.O. 00-5-15, *AF Time Compliance Technical Order System*

T.O. 00-5-19, *Security Assistance Technical Order Program*

T.O. 00-20-1, *Preventive Maintenance Program general Policy Requirements and Procedures*

T.O. 00-20-2, *Maintenance Data Documentation*

T.O. 00-20-3, *Maintenance Processing of Repairable Property and Repair Cycle Asset Control System*

T.O. 00-20-5, *Aerospace Vehicle Inspection and Documentation*

T.O. 00-20-7, *Inspection System, Documentation and Status Reporting for Support and Training Equipment*

T.O. 00-20-9, *Forecasting Replacement Requirements for Selected Calendar and Hourly Time Change Items*

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T.O. 11A-1-10, *General Instruction -- Munitions Serviceability Procedures*

T.O. 11A-1-33, *Handling and Maintenance of Explosives Loaded Aircraft*

T.O. 11A-1-42, *General Instructions for Disposal of Conventional Munitions*

T.O. 11A-1-46, *Fire Fighting Guidance, Transportation, and Storage Management Data*

T.O. 11A-1-47, *Explosives Hazard Classification Procedures*

T.O. 11A-1-60, *General Instruction - Inspection of Reusable Munitions Containers and Scrap Material Generated From Items Exposed To, or Containing Explosives*

T.O. 11A-1-61-1, *Storage and Outloading Instruction -- Conventional Ammunition (Truck Loading Drawings)*

T.O. 11A-1-61-2, *Storage and Outloading Instruction -- Conventional Ammunition (Carloading Drawings)*

T.O. 11A-1-61-3, *Storage And Outloading Instruction -- Conventional Ammunition (Trailer-On-Flatcar Carloading, Truckloading and Storage Drawings)*

T.O. 11A-1-61-4, *Storage and Outloading Instructions Conventional Ammunition (Storage Drawing for Igloos, Stradley and Standard Type Magazines and Misc. Palletizing Drawings)*

T.O. 11A-1-61-5, *Storage And Outloading Instruction -- Conventional Ammunition (Military Van Containers Drawings)*

T.O. 11A-1-63, *Munitions Assembly Procedures - Inspection and Assembly Non-nuclear Munitions*

T.O. 11A-1-65, *Munitions 463L Palletization for Air Transport*

T.O. 11A-1-66, *General Instruction - Demolitions*

T.O. 11A-1-67, *Ammunition Restraint Systems for Commercial and Military Intermodel Containers (Assy, Instl, Removal And Operation)(Tm 9-1300-276) (Sg 830-Aa-Gtp-010/Ammo)*

T.O. 11G14-4-11, *Assembly and Inspection with IPB - Field Level Maintenance Accelerator Monitoring Assembly (AMA)*

T.O. 21M-1-101, *Reliability Asset Monitoring System*

T.O. 35-1-3, *Corrosion Prevention, Painting and Marking of USAF Support Equipment (SE)*

T.O. 35-1-24, *Air Force Economic Repair/Replacement Criteria for Selected San Antonio Air Logistics Center (ALC) Managed Support Equipment (SE)*

T.O. 36-1-121, *Standardization of Lunettes and Pintles (Towing Attachments)*

T.O. 44H2-3-1-101, *Operation and maintenance Instructions, High, Medium, Low Security*

Reports (Reports Control Symbol (RCS) and Title)

RCS: HAF-SP (AR)-7101, **Reporting of Significant Arms and Non-nuclear Munitions Losses and Incidents**

RCS: HAF-ILX (AR)-7124, **Item of Special Interest Report**

RCS: HAF-ILM (M&D)-9459, **STAMP and STRAPP Status Report**

RCS: HAF-ILM (Q)-9901, **Munitions Capability Report**

RCS: HAF-ILM (A)-9902, **Master Storage Plan Report**

Forms

AF Form 9, **Request for Purchase**

AF Form 68, **Munitions Authorization Record**

AF Form 55, **Employee Safety and Health Record**

AF Form 191, **Ammunitions Disposition Request**

AF Form 4147, **Munitions Movement Control Sheet**

AF Form 614, **Charge Out Record**

AF Form 797, **JQS Continuation Sheet**

AF Form 1208, **Change Out Record - EAM Card**

AF Form 1768, **Staff Summary Sheet**

AF Form 1996, **Adjusted Stock Level**

AF Form 2005, **Issue and Turn-in Request**

AF Form 2409, **Generation Sequence Action Schedule**

AF Form 2427, **Key and Lock Control Register**

AF Form 2432, **Key Issue Log**

AFTO Form 9, **Request for Purchase**

AFTO Form 95, **Significant Historical Data**

AFTO Form 22, **Technical Order System Improvement Report and Reply**

AFTO Form 102, **Munitions Inspection Document**

AFTO Form 135, **Source, Maintenance and Recoverability Code Change Record**

AFTO Form 223, **Time Change Requirements Forecast**

AFTO Form 244, **Industrial/Support Equipment**

AFTO Form 245, **Industrial/Support Equipment Record (Continuance Sheet)**

DD Form 114, **Military Pay Order**

DD Form 577, **Signature Card**

DD Form 200, **Financial Liability Investigation of Property Loss**

DD Form 362, **Statement of Charges/Cash Collection Voucher**

DD Form 363, **Statement of Charges, Cash Collection**

DD Form 1131, **Cash Collection Voucher**

DD Form 1149, **Requisition and Invoice/Shipping Document**

DD Form1150, **Request for Issue or Turn-in**

DD Form 1348-1, **Issue Release/Receipt Document**

DD Form 1348-1A, **Automated Single Line Item Release/Receipt Document**

DD Form 1577, **Unserviceable/ Condemned Tag**

DD Form 1577-1, **Unserviceable/Condemned Label**

DD Form 2282, **Convention for Safe Containers (CSC)**

SF Form 361, **Transportation Discrepancy Report**

SF Form 364, **Report of Discrepancy (ROD)**

SF Form 368, **Product Quality Deficiency Report**

DA Form 2404, **Equipment Inspection and Maintenance Worksheet**

DC Form 7525V, **(Department of Commerce), Shipper's Export Declaration**

Abbreviations and Acronyms

AEDA—Ammunition, Explosives, Dangerous Articles

ACP —Ammunition Control Point

ACS—Agile Combat Support

ACSA —Acquisition Cross-Servicing Agreement

ADPE —Automated Data Processing Equipment

ADR —Ammunition Disposition Request

AFCSP —Air Force Competitive Shooting Program

AFMLSG —Air Force Munitions Logistics Steering Group

AFSC —Air Force Specialty Code

AFTMS —AF Training Management System

AGE —Aerospace Ground Equipment

AGM, —Air to Ground Missile

AIG —Address Indicator Group

AIM —Air Intercept Missile

ALA —Ammunitions Loading Assembly

ALC —Air Logistic Center

ALLMAJCOM —All MAJCOM Munitions Managers Conference

ALS —Ammunition Loading System

AMA —Acceleration Monitoring Assembly

AMD —Acceleration Monitoring Device

AME —Alternate Mission Equipment

AOR —Area of Responsibility

APB —Acquisition Program Baseline

APF —Afloat Preposition Fleet

ATO —Air Tasking Orders

ATSO —Ability to Survive and Operate

AUR —All Up Round

AURC —All Up Round Container

AWM —Awaiting Maintenance

AWP —Awaiting Parts

BDU —Bomb Dummy Unit

BIF —Base Information File

BRU —Bomb Release Unit

BSP —Base Support Plan

C&SRL —Compliance & Standardization Requirements Listing

C4 —Command, Control, Communication and Computers

CAD —Cartridge Actuated Device

CADS —Containerized Ammunition Distribution System

CAMS —Core Automated Management System

CAS —Combat Ammunition System

CAS-A —Combat Ammunition System-ACP

CAS-B —Combat Ammunition System-Base

CAS-C —Combat Ammunition System-Command

CAS-D —Combat Ammunition System-Deployed

CATM —Captive Air Training Missile

CBMR —Capabilities Based Munitions Requirements

CE —Civil Engineering

CENTAF —Central Air Force

CCAF —Community College of the AF

CCD —Camouflage, Concealment and Deception

CCG —Computer Control Group

CDC —Career Development Course

CFETP —Career Field Education and Training Plan

CIIC —Controlled Inventory Item Code

CINC —Commander-in-Chief

CIO —Constrained Inventory Objectives

COMISP —Care of Munitions In Storage Program

COMPES —Contingency Mobility Planning and Execution System

CMOS —Cargo Movement Operation System

CMP —Combat Munitions Plans

CMPM —COTS Munitions Program Manager

CMRI —Combat Munitions Reliability Inspection

CMTP —Combat Munitions Training Program

COB —Collocated Operating Base

COMSEC —Communications Security

COMPES —Contingency Operation Mobility Planning Execution System

CONOPS —Concept of Operations

CONPLAN —Concept Plan

CONUS —Continental United States

COTS —Commercial off the Shelf

CRC —Complete Round Code

CRD —Complete Round Dictionary

CSC —Convention for Safe Containers

CSSO —Computer System Security Officer

CTK —Composite Tool Kit

DAA —Designated Approval Authority

DATM —Dummy Air Training Missile

DDESB —DoD Explosive Safety Board

DDN —Defense Data Network

DDS —Date Departed Station

DIFM —Due-in from Maintenance

DIREP —Difficulty Reports

DLAR —Detail Logistics Allocation Report

DMES —Deployable Mobility Execution System

DoDAAC —Department of Defense Activity Address Code

DoDAAD —Department of Defense Activity Address Directory

DoDIC —Department of Defense Identification Codes

DOLI —Date of Last Inventory

DOP —Dropped Object Prevention

DR —Deficiency Report

DRMO —Defense Reutilization Management Office

EAD —Earliest Arrival Date

EAF —Emergency Action File

EDM —Emergency Destruction of Material

EMSEC —AF Emission Security Program

EOD —Explosive Ordnance Disposal

EPA —Environmental Protection Agency

EPSF —Expenditure per Sortie Factors

ERRC —Expendability, Reparability and Recoverability Code

EWO —Emergency War Order

FSC —Federal Stock Class

FDO —Foreign Disclosure Office

FEDLOG —Federal Catalog

FEQ —Field Evaluation Questionnaire

FM —Functional Manager

FMS —Foreign Military Sales

FOB —Found on Base

FOD —Foreign Object Damage

FOL —Forward Operating Location

FOUO —For Official Use Only

FRB —Functional Requirements Board

FSC —Federal Stock Class

FUC —Functional User Code

GAP —Global Asset Positioning

GAS —Graduate Assessment Survey

GBU —Guided Bomb Unit

GCCS —Global Command and Control System

GCU/S —Guidance Control Unit/Section

GTN —Global Transportation Network

HAS —Hardened Aircraft Shelters

HC —Hazard Classification

ICP —Inventory Control Point

IDR —Indicative Data Record

IDS —Intrusion Detection System

IHC —Interim Hazard Classification

IMM —Integrated Material Manager

IMMS —Independent Munitions Maintenance Section

IMMU —Independent Munitions Maintenance Unit

IPI —In-Progress Inspection

ISIR —Items of Special Interest Report

ITO —Integrated Tasking Order

JCN —Job Control Number

JCS —Joint Chiefs of Staff

JMEM —Joint Munitions Effects Manuals

JMPAB —Joint Material Priorities and Allocations Board

JSCP —Joint Strategic Capabilities Plan

LAARC —Locally Assigned Ammunition Reporting Code

LAD —Latest Arrival Date

LALS—Linkless Ammunition Loading System

LAN —Local Area Network

LAT —Lot Acceptance Testing

LIMFAC —Limiting Factor

LMME —Locally Manufactured Munitions Equipment

LMR —Land Mobile Radio

LOGFOR —Logistics Force Packaging System

LOGMARS —Logistics Marking and Reading Symbology

LOGMOD —Logistics Module

LPS —Lighting Protection System

LRC —Logistics Readiness Center

LRSLA —Long Range Service Life Analysis

MOC —Maintenance Operations Center

MAC —Munitions Assembly Conveyor

MAGNUM —Munitions Storage Activities Gained Through Negotiation of USAF/ROKAF Memorandums of Understanding

MAIS—Major automated Information System

MAJCOM —Major Command

MANFOR —Manpower Force Packaging System

MAPAD —Military Assistance Program Address Directory

MASO —Munitions Accountable System Officer

MEP —Munitions Employment Plan

MC2K —Munitions Control 2000

MDAPS—Major Defense Acquisition Programs

MICAP —Mission Capable

MILSTRIP —Military Standard Requisitioning and Issue Procedures

MILSTAMP —Military Standard Transportation and Movement Procedures

MIPR —Military Interdepartmental Purchase Request

MMHE —Munitions Material Handling Equipment

MMP —Munitions Movement Plan

MMR —Maintenance Manpower Request

MNS —Mission Needs Statement

MOA —Memorandum of Agreement

MOB —Main Operating Base

MOU —Memorandum of Understanding

MR —Military Munitions Rule

MSA —Munitions Storage Area

MSC —Military Sealift Command

MSDS—Material Safety Data Sheet

MSEM—Munitions Support Equipment Maintenance

MTMC—Military Traffic Management Command

MUFM—Munitions User Functional Manager

NCAA—Non-nuclear Consumables Annual Analysis

NEW—Net Explosive Weight

NNMSB—Non-Nuclear Munitions Safety Board

NOCM—Nuclear Ordnance Commodities Management

NRIU—Nuclear Remote Interface Unit

NSN—National Stock Number

O&M—Operations and Maintenance

OC-ALC—Oklahoma City Air Logistics Center

OCONUS—Outside the Continental United States

OIC—Officer in Charge

OO-ALC—Ogden Air Logistics Center

OOCR—Out-of-Cycle Requests

OPLAN—Operational Plan

OPORD—Operation Order

OPR—Office of Primary Responsibility

ORD—Operational Requirement Document

PAD—Propellant Actuated Device

PAI—Primary Aircraft Inventory

PEC—Program Element Code

PCA —Permanent Change of Assignment

PERSCO—Personnel Support for Contingency Operations

PGM—Precision Guided Munitions

PIWG—Product Improvement Working Group

PM—Product Group Manager

PMO—Program Management Office

POD—Port of Debarkation

POE—Port of Embarkation

POL—Petroleum, Oils and Lubricants

PPBS—Planning, Programming, and Budgeting System

PQDR—Product Quality Deficiency Report

PTO—Peace-Time Operating

QA—Quality Assurance

QSC—Quantity per Shipping Container

QT&E—Qualification, Test and Evaluation

QUP—Quantity per Unit Pack

R&M—Reliability and Maintainability

RACP—Regional Ammunition Control Point

RAMS—Reliability Asset Monitoring System

RCRA—Resource Conversation and Recovery Act

RDD—Required Delivery Date

RDO—Redistribution Order

REC—Regional Environmental Coordinator

REPSHIP—Report of Shipment

RI—Receiving Inspection

RIMCS—Reparable Item Movement Control System

RIMF—Reportable Item Master File

RLD—Ready to Load Date

ROS—Report of Survey

RSP—Readiness Spares Kit

RVP—Reverse Post

SA—System Administrator

SA-ALC—San Antonio Air Logistics Center

SAE—Service Acquisition Executive

SCL—Standard Configuration Load

SCR—Special Certification Roster

SDM—Static Display Munitions

SDT—Second Destination Transportation

SE—Support Equipment

SEI —Special Experience Identifier

SIPRNET—Secure Internet Protocol Network

SMCA—Single Manager for Conventional Munitions

SMI—Storage Monitoring Inspection

SMO—Squadron Maintenance Officer

SO—System Operator

SOFA—Status of forces Agreement

SORTS—Status of Resource and Training Systems

SPI—Special Packaging Instruction

SR—Sortie Rates

SRAN—Stock Record Account Number

SRD—Standard Reporting Designator

STAMP—Standard Air Munitions Package

STRAPP—Standard Tank, Rack, Adapter, and Pylon Package

STU—Secure Telephone Unit

SWIM—Special Weapons Information Management

TABBS—Theater Allocation Buy-Budget System

TACP—Theater Ammunition Control Point

TAMP—Tactical Air Missile Program

TARRP—Tactical Air Munitions Rapid Response Package

TCN—Transportation Control Number

TCTO—Time Compliance Technical Orders

TEMP—Test and Evaluation Master Plan

THREATCON—Threat Condition

TMCP—Tactical Missile Control Point

TMDE—Test, Measurement and Diagnostic Equipment

TMO—Transportation Management Office

TMR —Total Munitions Requirements

TMRS—Tactical Munitions Records System

T.O. —Technical Order

TODO—Technical Order Distribution Order

TPO—Transportation Packaging Order

TPFDD—Time-Phased Force and Deployment Data

TPFDL—Time-Phased Force and Deployment Lists

TPWG—Test Plan Working Group

TRAP—Tanks, Racks, Adapters and Pylons

TRIC—Transaction Identification Code

TTU—Thermal Treatment Units

UALS —Universal Ammunition Loading System

U&TW—Utilization and Training Workshop

UCML—Unit Committed Munitions List

UMD —Unit Manning Document

UMPR—Unit Manning Personnel Roster

UND —Urgency of Need Designator

USTRANSCOM—US Transportation Command

UTA—Unit Training Assembly

UTC—Unit Type Code

VACE—Verification and Checkout Equipment

VCNCO—Vehicle Control Non Commissioned Officer

WAA—Wartime Aircraft Activity

WCDO—War Consumables Distribution Objective

WMM—Waste Military Munitions

WMP—War Mobilization Plan

WR-ALC—Warner Robbins Air Logistics Center

WRM—War Reserve Materiel

WRSA—War Reserve Stocks for Allies

Terms

Air Tasking Order (ATO) —A method used to task and disseminate to components, subordinate units and command and control agencies projected sorties/capabilities/forces to targets and specific missions. Normally provides specific instructions to include call signs, targets, controlling agencies, etc., as well as general instructions.

Base Support Plan (BSP)—The installation level planning accomplished to support unified and specified command wartime operation plans, as well as MAJCOM supporting plans. It cuts across all functional support areas in a consolidated view of installation missions, requirements, capabilities and limitations to plan for actions and resources supporting war or contingency operations, including USAF Base Support Planning.

C-Day—The unnamed day on which a deployment operation commences or is to commence. The deployment may be movement of troops, cargo, weapon systems, or a combination of these elements utilizing any or all types of transport. The letter "C" will be the only one used to denote the above. The highest command or headquarters responsible for coordinating the planning will specify the exact meaning of C-day within the aforementioned definition. The command or headquarters directly responsible for the execution of the operation, if other than the one coordinating the planning, will do so in light of the meaning specified by the highest command or headquarters coordinating the planning.

Collocated Operating Base (COB)—An active or reserve allied airfield designated for joint or unilateral use by US Air Force wartime augmentation forces or for wartime relocation of US Air Force in-theater forces. COBs are not US bases.

Concept of Operations (CONOPS)—A verbal or graphic statement, in broad outline, of a commander's assumptions or intent in regard to an operation or series of operations. The concept of operations frequently is embodied in campaign plans and operation plans; in the latter case, particularly when the plan covers a series of connected operations to be carried out simultaneously or in succession. The concept is designed to give an overall picture of the operation. It is included primarily for additional clarity of purpose. Frequently, it is referred to as the commander's concept.

Contingency Operation Mobility Planning and Execution System (COM-PES)—Computer system designed to provide planners an automated capability to operate and maintain force packages, to develop and task requirements for operations plans, and to manage contingency forces and execution actions required of the operations, manpower, logistics, and personnel functions.

D-Day—The unnamed day on which a particular operation commences or is to commence. An operation

may be the commencement of hostilities.
a. The date of a major military effort. The execution date of an operation (as distinguished from the date the order to execute is issued); the date the operations phase is implemented, by land assault, air strike, naval bombardment, parachute assault, or amphibious assault. The highest command or headquarters responsible for coordinating the planning will specify the exact meaning of D-day within the aforementioned definition. If more than one such event is mentioned in a single plan, the secondary events will be keyed to the primary event by adding or subtracting days as necessary. The letter "D" will be the only one used to denote the above. The command or headquarters directly responsible for the execution of the operation, if other that the one coordinating the planning, will do so in light of the meanings specified by the highest planning headquarters.
b. Time in plans will be indicated by a letter that shows the unit of time employed and figures, with a minus or plus sign, to indicate the amount of time before or after the referenced event; e.g., "D" is for a particular day, "H" for an hour. Similarly, D+7 means 7 days after D-day and H+2 means 2 hours after H-hour. If the figure becomes unduly large, for example, D-day plus 90, the designation of D+3 months may be employed; i.e., if the figure following a letter plus a time unit (D-day, H-hour, etc.) is intended to refer to units of time other than that which follows the letter, then the unit of time employed with the figure must be spelled out.

Drop Ton—This is the total weight of items built-up/ready for use without packing materials and it uses the increment of 2,000lbs equals a drop ton. This weight is the total weight of the end item, i.e.; a built-up GBU-24 will include weight of bomb, airfoil group, computer control group (CCG), etc.

Short Ton—Measurement used in munitions planning which equals 2,000lbs.

Earliest Arrival Date (EAD)—A day, relative to C-Day, that is specified by a planner as the earliest date when a unit, a resupply shipment, or replacement personnel can be accepted at a port of debarkation during a deployment. Used with the latest arrival date (LAD), it defines a delivery window for transportation planning purposes.

Expenditure Per Sortie Factor (EPSF)—A number that tells how many of the items are used on each sortie. The value is the average value for the aircraft in that specific role or utilization.

FV (Formerly FK)—First two positions of the SRAN/DoDAAC designating a Munitions Account assigned by DoD. “F” indicates USAF and “V” indicates munitions.

Global Command and Control System (GCCS)—Highly mobile deployable command and control system supporting forces for joint and multinational operations across the range of military operations, any time and anywhere in the world with compatible, interoperable, and integrated command, control, communications, computers, and intelligence systems. (Joint Pub 1-02)

H-Hour—The specific hour on D-day at which a particular operation commences. The operation may be the commencement of hostilities; the hour at which an operation plan is executed or to be executed (as distinguished from the hour the order to execute is issued); the hour that the operations phase is implemented, either by land assault, parachute assault, amphibious assault, air or naval bombardment. The highest command or headquarters coordinating the planning will specify the exact meaning of H-hour within the aforementioned definition. Normally, the letter "H" will be the only one used to denote the above. However, when several operations or phases of an operation are being conducted in the same area on D-day, and confusion may arise through the use of the same hour designation for two or more of them, any letter of the alphabet may be used except A, C, D, E, J, M or others that my be reserved for exclusive use.).

Host Unit—The organization designated by the host major command or HQ USAF to furnish support to a tenant unit.

Inter-theater—Between theaters or between the continental United States and theaters. (Joint Pub 1-02)

Intra-command—Within a major command.

Intra-theater—Within a theater. (Joint Pub 1-02)

Latest Arrival Date (LAD)—A day, relative to C-Day, that is specified by a planner as the latest date when a unit, a resupply shipment, or replacement personnel can arrive at the port of debarkation and support the concept of operations. Used with the earliest arrival date (EAD), it defines a delivery window for transportation planning.

L-Hour—The specific hour on C-day, expressed in Universal Time, that serves as a common reference time from which the movement of weapon systems, equipment, supplies, personnel, and transportation is measured during deployment operations. Preplanned deployment activities can be scheduled before or after L-Hour.

Limiting Factor (LIMFAC)—A factor or condition that has a significant impact on the capability to perform the wartime mission which cannot be satisfied at unit level. Examples are transportation network deficiencies, malpositioned forces or material, extreme climatic conditions, etc.

Logistics—The science of planning and carrying out the movement and maintenance of forces. In its most comprehensive sense, those aspects of military operations that deal with: design and development, acquisition, storage, movement, distribution, maintenance, evacuation, and disposition of materiel; movement, evacuation, and hospitalization of personnel; acquisition or construction, maintenance, operation, and disposition of facilities and acquisition or furnishing of services.

Long Supply—Used to describe munitions assets 100% supportable of near year and out year allocations. Assets may be requisitioned up to 100% of near year and out year allocation prior to the beginning of the fiscal year upon approval at the GAP conference.

Maintainability—A characteristic of design which is expressed as the probability that an item will be retained in, or restored to a specific condition within a given period of time when the maintenance is performed in accordance with prescribed procedures and resources.

Mobility—A quality or capability of military forces which permits them to move from place to place while retaining the ability to fulfill their primary mission.

Non-nuclear Consumables Annual Analysis (NCAA)—The official US Air Force document that serves as the basis for air munitions War Reserve Materiel (WRM) planning and programming for 7 consecutive fiscal years approved forces. Documents the assumptions and methodologies to be used in computing conventional air munitions requirements. Identifies by MAJCOM totals, the near-term primary munitions requirements and out year planning levels. Published by HQ USAF/XORW and distributed to MAJCOMs, and other designated agencies.

Non-nuclear Munitions—A device charged with conventional explosives, propellants, pyrotechnics, initiating composition or biological or chemical materiel for use in connection with defense or offense, including demolition. Certain non-nuclear munitions can be used for training, ceremonial, or non-operational purposes. Non-nuclear munitions include all explosive and non-explosive components essential for the assembly of a complete operational round of munitions or all-up-round tactical missile and items which in themselves are considered complete operational rounds, plus any other items

designated for munitions management or reporting. In general, non-nuclear munitions include toxic, nontoxic, biological, incendiary explosives, smoke agents, bombs, chemical spray tanks, warheads, rockets, explosive components of catapult and canopy remover devices, explosive demolition materials, grenades, mines, pyrotechnics, and all types of devices used in igniting and exploding them, such as primers, detonators, fuzes, cartridges, squibs, boosters, igniters, blasting caps and bursters. Also included are inert, sectionalized or empty models of "live rounds" and drill munitions and or explosive materiel. Inert parts of end-items of non-nuclear munitions are also included.

Notional Tasking—A procedure to facilitate planning among all the Services, commands, and agencies whereby operation plan forces are expressed as standard type units as described in the type unit data file disseminated by the Joint Staff, no specific units are identified.

Operation Order (OPORD)—A directive issued by a commander to subordinate commanders for the purpose of effecting the coordinated execution of an operation.

Operation Plan (OPLAN)—Any plan, except for the Single Integrated Operation Plan, for the conduct of military operations. Plans are prepared by combatant commanders in response to requirements established by the Chairman of the Joint Chiefs of Staff and by commanders of subordinate commands in response to requirements tasked by the establishing unified commander. Operation plans are prepared in either a complete format (OPLAN) or as a concept plan (CONPLAN). The CONPLAN can be published with or without a time-phase force and deployment data (TPFDD) file. An OPLAN is an operation plan for the conduct of joint operations that can be used as a basis for deployment of an operation order (OPORD). An OPLAN identifies the forces and supplies required to execute the CINC's Strategic Concept and a movement schedule of these resources to the theater of operations. The forces and supplies are identified in the TPFDD files. OPLANs will include all phases of the tasked operation. The plan is prepared with the appropriate annexes, appendixes, and TPFDD files as described in the Joint Operation Planning and Execution and Systems manuals containing planning policies, procedures, and formats. (Joint Pub 1-02)

Origin—The beginning point of a deployment. The point or station at which a movement requirement is located.

Planning Factor—A multiplier used in planning to estimate the amount and type of effort involved in a contemplated operation. Planning factors are often expressed as rates, ratios or lengths of time.

Port of Debarkation (POD)—The geographic point at which cargo or personnel are discharged. May be a seaport or aerial port of debarkation. For unit requirements, it may or may not coincide with the destination. (Joint Pub 1-02)

Port of Embarkation (POE)—The geographic point in a routing scheme from which cargo or personnel depart. May be a seaport or aerial port from which personnel and equipment flow to port of debarkation. For unit and non-unit requirements, it may or may not coincide with the origin. (Joint Pub 1-02)

Preposition—To place military units, equipment, or supplies at or near the point of planned use or at a designated location reduce reaction time, and to ensure timely support of a specific force during initial phases of an operation.

Primary Aircraft Inventory (PAI)—The aircraft assigned to meet the primary aircraft authorization. (Joint Pub 1-02)

Product Assurance—The interaction of those management and technical activities necessary to determine that a product will satisfy mission requirements and identify or predict product degradation and

define its effect on mission accomplishment.

Readiness—The ability of US military forces to fight and meet the demands of the national military strategy. Readiness is the synthesis of two distinct but interrelated levels: unit readiness--the ability to provide capabilities required by the combatant commanders to execute their assigned missions derived from the ability of each unit to deliver the outputs for which it was designed; and joint readiness--the combatant commander's ability to integrate and synchronize ready combat and support forces to execute his or her assigned missions. (Joint Pub 1-02)

Readiness Spares Package (RSP)—An air transportable package of war reserve materiel spares, repair parts, and related maintenance supplies required to support planned wartime or contingency operations of a weapon or support system for a specified period of time pending resupply. RSP may support aircraft, vehicles, communication systems and other systems as appropriate.

Redeployment—The transfer of a unit, an individual or supplies deployed in one area to another area, or to another location within the area, or to the zone of interior for the purpose of further employment.

Reliability—The probability that an item will perform its intended function for a specified interval under stated conditions.

Service Life—The length of time an item can remain in an operating configuration or in actual usage, or as directed by item technical order. Shelf and service life are not cumulative; any combination of shelf and service life accrued by an item cannot exceed the shelf life of the item.

Shelf Life—The length of time an item may remain in storage under prescribed packaging and storage conditions. The expiration date for shelf life on items with the month and year listed is the last day of the month. Shelf life begins on the item's manufacture, assembly or rework date.

Shortfall—The lack of forces, equipment, personnel, materiel or capability apportioned to and identified as a plan requirement, that would adversely affect the command's ability to accomplish its mission.

Short Supply—Used to describe munitions assets less than 100% supportable of near year requirements. Assets may be requisitioned at a percent of near year allocation prior to the beginning of fiscal year upon approval at the GAP conference.

Sortie Rate—The number of times per day an aircraft type can be flown.

Standard Air Munitions Packages (STAMP)—A logistics entity consisting of a prescribed quantity of optimized conventional munitions drawn from war reserve materiel assets, stored in CONUS as an air-transportable package, and designed as initial support for a particular weapons system for a specific period under combat operating conditions.

Standard Configuration Load (SCL)—The total quantity of munitions that comprise a specific certified aircraft load.

Standard Tanks, Racks, Adapters, Pylons Package (STRAPP)—An air-transportable package of tanks, racks, adapters, and pylons to support a specific aircraft.

Support Plan—A formalized, directive document that specifies responsibilities of units that must interface during peace of wartime. Such plans are quite common between host nations and US forces.

Surveillance Testing—A detailed test, analysis, and reporting program for comparing a conventional munitions to established standards and for projecting shelf and service life throughout the period from development to disposal.

Tactical Air Missile Program (TAMP)—Standard Air Force document that provides air-to-air missile allocations in support of weapon system evaluation program, training, testing, and war reserve materiel requirements.

Theater—The geographical area outside the continental United States for which a commander of a unified or specified command has been assigned military responsibility.

Time-Phased Force and Deployment Data (TPFDD)—The computer-supported data base portion of an operation plan. It contains time-phased force data, non-unit-related cargo and personnel data, and movement data for the operation plan, including:

a. In-place units.

b. Units to be deployed to support the operation plan with a priority indicating the desired sequence for their arrival at the port of debarkation.

c. Routing of forces to be deployed.

d. Movement data associated with deploying forces.

e. Estimate of transportation requirements that must be fulfilled by common-user lift resources as well as those requirements that can be fulfilled by assigned or attached transportation resources.

Time-Phased Force and Deployment List (TPFDL)—Appendix 1 to Annex A of the operation plan. It identifies types and/or actual units required to support the operation plan and indicates origin and ports of debarkation or ocean area. It may also be generated as a computer listing from the time-phased force and deployment data.

Unit Committed Munitions List (UCML)—A list that identifies munitions required by a unit to support war plans (primary munitions) and contingency operations (support munitions).

Unit Type Code (UTC)—A five-character, alphanumeric code that uniquely identifies each type unit of the Armed Forces.

War and Mobilization Plan (WMP)—The Air Force War and Mobilization Plan is the supporting plan to the Joint Strategic Capabilities Plan. It extends through the Six Year Defense Program to provide for continuity in short- and mid-range war and mobilization planning. Provides current policies and planning factors for the conduct and support of wartime operations. Establishes requirements for the development of mobilization and production planning programs to support sustained contingency operations of the programmed forces. Encompasses all functions as necessary to match facilities, manpower and materiel resources with planned wartime activity.

War Consumables—Expendable items directly related and necessary to a weapon system or combat support activity. Examples of these are auxiliary fuel tanks, pylons, petroleum, oil, lubricants, chaff, aircraft guns and gun barrels, air munitions, subsistence, and related flight expendables, racks, adapters, launchers, and film.

War Consumable Distribution Objectives (WCDO)—A document that provides the war reserve materiel prepositioning requirements for selected war consumables for support of the wartime activities.

War Reserve Materiel (WRM)—Materiel required, in addition to mobility equipment and primary operating stock, to support wartime activities reflected in the US Air Force War and Mobilization Plan until the industrial base has generated sufficient deliveries to equal planned wartime consumption. Found in the Wartime Aircraft Activity (WAA) in Volume 4 of the USAF War and Mobilization Plan.

War Mobilization Plan (WMP)—A document, which identifies the aircraft activities of all approved war, plans for each intended airfield. Extracts for individual airfields are usually classified Secret and may be provided to the base planning staff by the parent MAJCOM.

Attachment 2

AMMO VISION 2010
"UNITED STATES AIR FORCE AGILE COMBAT SUPPORT (ACS) FOR MUNITIONS"

A2.1. Introduction. ACS is a major Air Staff initiative to ensure that USAF forces respond to global challenges over the coming years with flexibility, rapidity, and decisive use of power. The munitions area is a fundamental and indispensable part of air warfare and ACS.

A2.1.1. The munitions area faces new challenges emanating from these major events:

A2.1.2. Personnel reductions and organizational consolidation have reduced career field numbers to pre-Vietnam levels. These reduced manpower levels require new thinking and fresh initiatives to maintain readiness for mobilization and conflict. Lower experience levels within the career field mean that training efforts must be more productive than previously.

A2.1.3. The conventional munitions reporting system needs to be reevaluated and upgraded to better support both CONUS and deployed forces in light of career field drawdowns.

A2.1.4. The strategic vision for HQ USAF/ILMW encompasses all major areas of the munitions function and is based on an assessment of munitions personnel manning, training, readiness, reporting systems, and overall combat capability in both the conventional and nuclear munitions areas. The vision outlines which directions the munitions function should take over the next decade.

A2.2. Strategic Vision. Organize, train, equip, and manage an adequate corps of munitions personnel to provide ACS to the Air Force of the future.

A2.3. Objectives.

A2.3.1. Complete an Air Force-wide business process review.

A2.3.2. Publish appropriate guidance.

A2.3.3. Initiate a systematic professional career development program for enlisted personnel and officers with munitions expertise and experience.

A2.4. Long-Range Plan. The specific long-range initiatives are:

A2.4.1. Create a new officer Air Force Specialty Code (AFSC), combining the munitions maintenance and the ICBM maintenance fields. This new combination would build upon a shared core of knowledge and expertise (explosives safety, Quantity Distance, Two-Person Control, No-loan Zones, certification, etc.).

A2.4.1.1. Within the new AFSC, establish shredouts for munitions (conventional and nuclear), ICBM maintenance, and weapons safety.

A2.4.1.2. Create a training and career path that assures the depth of knowledge needed to fill critical senior-level positions, and the breadth of knowledge and experience needed to foster competitive promotion potential.

A2.4.2. Publish an overarching, comprehensive munitions policy and procedures directive.

A2.5. Near Term Initiatives. The first steps in achieving the munitions agile combat long-term objectives is to start with our near term initiatives. Near term initiatives are as follows:

A2.5.1. Officer Personnel.

A2.5.1.1. Win approval for a new Weapons Maintenance Officer AFSC (21W), starting with the Logistics Board of Advisors and continuing coordination up the Air Force chain of command.

A2.5.1.2. After approval, work implementing details with the Air Force Personnel Center and other responsible agencies.

A2.5.1.3. Work toward gaining acceptance in the Air Force logistics community by visiting key elements of Major Commands and providing detailed briefings covering rationale and plan of action.

A2.5.1.4. Coordinate realignment of munitions policy-making action officer positions to HQ USAF/ILMW from HQ USAF/ILSR.

A2.5.2. Enlisted Personnel.

A2.5.2.1. Reengineering to establish a manpower standard for the 2W and 2M career field.

A2.5.2.2. If approved, work implementing details including incorporate manpower standards into manpower documents and initiate personnel actions.

A2.5.3. Acquisition.

A2.5.3.1. Assure acquisition programs for new munitions support munitions ACS goals.

A2.5.3.2. Study each munitions acquisition program to determine the status of logistics supportability (e.g. maintenance, facilities, manpower, tech data, configuration management, etc.). Initiate action where necessary to correct any problems identified.

A2.5.4. Air Expeditionary Force - Munitions Support.

A2.5.4.1. Develop smaller, lighter (more “agile”) Standard Air Munitions Packages (STAMP).

A2.5.4.2. Develop a viable bare-base munitions support strategy. As part of this effort, develop a Modeling & Simulation computer application to assist munitions action officers in assessing munitions requirements to support bare-base operations.

A2.5.4.3. Lead the effort to develop leaner, lighter multipurpose munitions support equipment.

A2.5.5. Demilitarization and Disposal.

A2.5.5.1. Continue implementation of the Munitions Rule.

A2.5.5.2. Continue participation in the National Dialogue on Disposition. Assure Air Force munitions issues are appropriately considered.

A2.5.5.3. Take a leading role in the Ammunition, Explosives and Dangerous Articles IPT.

A2.5.5.4. Participate in Ordnance Environmental Steering Committee meetings.

A2.5.5.5. Cooperate with, and learn from, the Army’s initiative to develop environmentally friendly “Green” training munitions.

A2.5.6. Information Systems.

A2.5.6.1. Declassify the Combat Ammunition System (CAS).

A2.5.6.2. Assure that CAS is Year 2000 (Y2K) compliant.

A2.5.6.3. Initiate migration of the Combat Ammunition System-Base (CAS-B) off the AT&T 3B2 computer platform, which will not be supportable beyond the year 2000.

A2.5.6.4. Foster development of the Joint Ammunition Management Standard System (JAMSS) to replace the Ammunition Control Point and Major Command elements of CAS.

A2.5.7. Management Structure and Command & Control (C2).

A2.5.7.1. Develop a munitions C2 architecture that is responsive to bare-base and AEF CONOPS.

A2.5.7.2. Institutionalize this architecture in written Air Force directives.

A2.5.8. Nuclear.

A2.5.8.1. Participate with other DoD organizations to revise the implementing directive for the Nuclear Weapons Stockpile Memorandum (NWSM).

A2.5.8.2. Work to find adequate funding for the realistic nuclear weapon loading trainer.

A2.5.8.3. Assure smooth transition of nuclear weapons support functions from San Antonio to Kirtland and other responsibility centers.

A2.5.8.4. Participate in the IPT established to study the feasibility and advisability of transitioning the nuclear weapons Unsatisfactory Reporting (UR) system to the planned Sandia National Laboratory-sponsored universal UR system.

A2.5.9. Policy and Guidance.

A2.5.9.1. Publish a new, consolidated munitions policy directive, AFI 21-201. Continue to combine all of the existing unclassified munitions AFIs into this single document.

A2.5.9.2. Begin work on expanding the detail in the new AFI in order to provide a clear, unambiguous roadmap for munitions managers throughout the Air Force.

A2.5.10. Requirements and Allocation.

A2.5.10.1. Improve Second Destination Transportation (SDT) management for munitions by implementing the PACER AMMO program.

A2.5.10.2. Improve munitions distribution management by further refining the Global Asset Positioning (GAP) process. Link GAP objectives to PACER AMMO SDT funding management.

A2.5.11. Transportation and Storage.

A2.5.11.1. Expand the assessment of Air Force nuclear and conventional munitions storage capability as a follow-on to the recent Functional Management Inspection (FMI) conducted by the Air Force IG. Make recommendations to improve management of existing resources along with planning to accommodate new munitions systems.

A2.5.11.2. Conduct a study that will lead to realignment of munitions storage closer to transportation hubs for better AEF support.

A2.6. Conclusion.

A2.6.1. AMMO Vision 2010 is a carefully crafted plan that supports our transformation into the 21st Century. With your continued support, it will:

A2.6.1.1. Put Our People First . We can never lose sight of the fact that it's our great AMMO troops (enlisted and officers) - active-duty, Guard, Reserve and civilians - who make our world class profession one of the most respected in the Air Force. This vision continues our commitment to improve training, policies and procedures, and information systems. AMMO 2010 will capitalize on existing strengths and serve as a benchmark for future ACS initiatives.

A2.6.1.2. Emphasize Readiness. The Air Force has been in a constant state of high operations tempo since the end of Desert Shield/Storm. We are getting smaller than we have ever been, yet been tasked at a level many times more than we have ever been in the past. By committing to better organize, train, equip and manage our current resources, we will be ready to meet our mission requirements by more efficient use of the total force - active-duty, Guard, Reserves, civilians - to meet ACS.

A2.6.1.3. The Need For Change. The success of our vision depends on our ability to respond to challenges in the form of threat changes, mission changes, technology changes and budget changes. The tough challenges we will face in the future represent a great opportunity to chart a new course of action for the munitions community. It is our commitment to learn from the past, improve the present and look toward the future. This vision will serve as our roadmap into the 21st Century.

Attachment 3

PREPARING THE AF FORM 1996, ADJUSTED STOCK LEVEL

A3.1. If past usage or anticipated increase in peak workload indicates the need for a quantity greater than allocated quantity confer with MAJCOM for proper submission and routing of the AF Form 1996. The MASO may request a special level for the additional quantity using AF Form 1996. Forward all AF Forms 1996 through the MAJCOM to the inventory management specialist. Accomplish annual revalidation of approved AF Forms 1996 and cancel requirement if no longer needed.

A3.2. Prepare the AF Form 1996 as follows:

A3.2.1. The originator enters:

A3.2.1.1. National stock number (NSN), noun, organization account code.

A3.2.1.2. Part number, application.

A3.2.1.3. Level requested (maximum and minimum).

A3.2.1.4. Complete narrative justification to include technical order, publication or message reference. Be specific, give thorough information and state whether the property is on hand.

A3.2.1.5. Date, signature of commander, office symbol and Defense Switched Network (DSN) number.

A3.2.2. FV will complete the form as follows:

A3.2.2.1. As of date, ERRC, unit of issue, unit price, routing identifier and budget code.

A3.2.2.2. NCOIC, date and sign (under stock control officer or equivalent), approve or disapprove, SRAN/DoDAAC, and telephone number.

A3.2.2.3. MASO, date and sign (under chief of supply or equivalent), approve or disapprove, SRAN and DSN number.

A3.2.2.4. Assign a base control number from the special level request log.

A3.2.2.4.1. The accountability section will maintain a log that reflects all pertinent information from the request, (i.e., base control number, NSN, noun, requested level, approval date, validation date and due date).

A3.2.2.5. If disapproved, enter the reason for disapproval and return the request to the originator.

A3.2.3. Forward MASO approved 1996 to the MAJCOM for coordination.

A3.2.4. Post the approved special level to accountable records and CAS after the AF Form 1996 is approved.

A3.2.5. Units are authorized to maintain assets based on governing TA or host-nation agreements outlining aircraft support. Use an MASO-approved AF Form 1996 to establish stock levels with appropriate justification.

Attachment 4

MAJOR CATEGORIES OF NON-NUCLEAR MUNITIONS

Category A - Munitions required to replace worn out or damaged assets. Based on historical data.

Category B - Ground munitions war reserve materiel (WRM) levels not computed by HQ USAF in the Non-nuclear Consumables Annual Analysis (NCAA) process. Applies to munitions and explosives that are not part of an aircraft weapon system. Includes munitions and explosives to be deployed from a home base for mobility, unit relocation or augmentation, and prepositioned munitions for incoming forces as appropriate.

Category C - Peacetime static level (non-WRM and non-consumable). This category includes all items on hand and not normally consumed.

Category D - Peacetime consumable munitions. Includes all items consumed and not covered by:

Requirement Code KB - Initial Operational Test and Evaluation (OT&E) and Development Test and Evaluation (DT&E).

Requirement Code KC - Follow-on Operational Test and Evaluation (FOT&E) and Qualification Operation Test and Evaluation (QOT&E).

Requirement Code KD - Seek Eagle testing. The Air Force Seek Eagle Office (AFSEO) develops Seek Eagle requirements.

Category E - Munitions expended for special projects like the Weapons Systems Evaluation Program. Separate requirement codes necessary to account for funding regulations and impact on inventory are listed under Category C.

Category F - A subset of category G. Air-to-ground munitions levels, not computed by the NCAA process, required to load the fleet for employment from home base or deployment to other operating locations.

Category G - Air-to-ground WRM levels computed by the NCAA process.

Category M - Afloat Prepositioned Fleet (APF). Requirements are identified by HQ USAF/ILMW/XORW in conjunction with OO-ALC/WM.

Category N - Foreign Military Training Support. Provides mechanism for MAJCOMs to identify assets needed to train forces from other countries. Appropriate commands submit requirements to OO-ALC/WM.

Category P - Additional munitions allocations authorized at Global Asset Positioning Conference. These munitions are authorized for storage only not to be expended without prior Air Staff coordination (HQ USAF/XORW or AFSFC/SFWC).

Category Z - Standard Air Munitions Package (STAMP) requirements identified by HQ USAF/XORW to OO-ALC/WM.

Attachment 5

FUNCTIONAL USER CODES (FUC)

A1	ACFT SQ 1	A2	ACFT SQ 2
A3	ACFT SQ 3	**A4**	ACFT SQ 4
A5	ACFT SQ 5	**A6**	ACFT SQ 6
A7	ACFT SQ 7	**A8**	ACFT SQ 8
A9	ACFT SQ 9		
B1	BASE HOSPITAL	**B2**	BASE SUPPLY
B3	BASE ADMINISTRATION	**B4**	BASE COMMUNICATION
B5	BASE OPERATIONS	**B6**	BASE CC
B7	AIRFIELD MANAGEMENT	**B8**	RESERVED
B9	RESERVED		
C1	CATM	**C2**	COMMAND POST
C3	CIVIL ENGINEERS (NOT PRIME BEEF)	**C4**	CHAPLIN
C5	COMBAT CONTROL TEAMS	**C6**	COMBAT COMM
C7	COMBAT CAMERA	**C8**	CONTRACT SECURITY
C9	AF COURIERS SERVICE		
D1	DISASTER PREPAREDNESS	**D2**	OG
D3	AF DATA AUTOMATION	**D4**	DEFENSE MAPPING AGENCY
D5	DO	**D6**	RESERVED
D7	RESERVED	**D8**	RESERVED
D9	RESERVED		
E1	EXERCISE EVAL TEAM	**E2**	EOD
E3	ELECTRONIC SECURITY SQ	**E4**	RESERVED
E5	RESERVED	**E6**	RESERVED
E7	SEEK EAGLE	**E8**	RESERVED
E9	RESERVED		
F1	HQ ACC	**F2**	HQ AFMC
F3	AFRC/HQ AFRC	**F4**	HQ AFSOC
F5	HQ AETC	**F6**	RESERVED
F7	AIRCRAFT BATTLE DAMAGE REPAIR	**F8**	AIR RESCUE AND RECOVERY
F9	FOA		
G1	AGS CC	**G2**	ANG
G3	ARMAMENT SHOP	**G4**	AIRCRAFT CONTROL ELEMENTS

G5	ACCOUNTING AND FINANCE	**G6**	AIRCREW LIFE SUPPORT
G7	AIR UNIVERSITY	**G8**	AREOSPACE DEFENSE CENTER (ADC)
G9	AF AUDIT AGENCY		
H1	HONOR GUARD	**H2**	HQ SQ
H3	HISTORIANS	**H4**	RESERVED
H5	RESERVED	**H6**	RESERVED
H7	RESERVED	**H8**	RESERVED
H9	RESERVED		
I1	RESERVED	**I2**	RESERVED
I3	RESERVED	**I4**	RESERVED
I5	RESERVED	**I6**	RESERVED
I7	RESERVED	**I8**	RESERVED
I9	RESERVED		
J1	JAG	**J2**	JCSE (JOINT COMM SUPPORT ELMNT)
J3	RESERVED	**J4**	RESERVED
J5	RESERVED	**J6**	RESERVED
J7	RESERVED	**J8**	RESERVED
J9	RESERVED		
K1	RESERVED	**K2**	RESERVED
K3	RESERVED	**K4**	RESERVED
K5	RESERVED	**K6**	RESERVED
K7	RESERVED	**K8**	RESERVED
K9	RESERVED		
L1	LG	**L2**	IG
L3	INTEL	**L4**	LGX
L5	LAUNCH FACILITY	**L6**	RESERVED
L7	RESERVED	**L8**	RESERVED
L9	RESERVED		
M1	HQ AMC	**M2**	MUNITIONS BRANCH
M3	MUNITIONS MAINT (C}	**M4**	MUNITIONS MAINT (N)
M5	MUNSS	**M6**	MUNS SQ CC
M7	MA	**M8**	MILITARY ASSISTANCE PGM
M9	MPF/PERSONNEL		
N1	NUMBERED AIR FORCE	**N2**	NUMBERED ATAF
N3	RESERVED	**N4**	RESERVED
N5	RESERVED	**N6**	RESERVED

N7	RESERVED	**N8**	RESERVED
N9	RESERVED		
O1	OSI	**O2**	AF OPERATIONS STAFF
O3	ANIMAL CONTROL	**O4**	AERIAL PORT
O5	OSI (ACADEMY)	**O6**	RESERVED
O7	RESERVED	**O8**	RESERVED
O9	RESERVED		
P1	HQ PACAF	**P2**	PRIME BEEF
P3	PUBLIC AFFAIRS	**P4**	PERSONNEL (PERSCO)
P5	F-22	**P6**	B-52
P7	HELO	**P8**	TANKERS
P9	C-17		
Q1	A-10	**Q2**	C-130
Q3	C-141	**Q4**	C5
Q5	F-15	**Q6**	F-16
Q7	B-1	**Q8**	B-2
Q9	F-117		
R1	RED HORSE	**R2**	RAPID RUNWAY REPAIR
R3	RANGES (PACAF)	**R4**	PRIME RIB
R5	RESERVED	**R6**	RESERVED
R7	RESERVED	**R8**	RESERVED
R9	RESERVED		
S1	DOG TRAINING	**S2**	HQ SPACECOM
S3	SECURITY FORCES	**S4**	USAF SECURITY SERVICE
S5	SERVICES (NOT PRIME RIB)	**S6**	SPACE OPERATIONS
S7	SHOOTING TEAMS	**S8**	SAFETY
S9	SOCSENT (SPEC OPS CTRL CMD)		
T1	TRANSPORTATION	**T2**	RESERVED
T3	TACS UNITS	**T4**	RESERVED
T5	TACTICAL CONTROL FLIGHT SQ	**T6**	AFOTEC
T7	RESERVED	**T8**	RESERVED
T9	RESERVED		
U1	HQ USAF	**U2**	HQ USAFE
U3	HQ USAFE OSC	**U4**	HQ USAF ACADEMY
U5	US CENTAF	**U6**	US SOUTHAF
U7	US CENTCOM (CENTRAL CMD)	**U8**	US SOCOM (SPECIAL OPS CMD)

U9	RESERVED		
V1	RESERVED	**V2**	RESERVED
V3	RESERVED	**V4**	RESERVED
V5	RESERVED	**V6**	RESERVED
V7	RESERVED	**V8**	RESERVED
V9	RESERVED		
W1	WEAPONS LOAD TRAINING	**W2**	WEAPON SERVICES
W3	WING CC	**W4**	WARFARE CENTER, AIR MOBILITY
W5	WEATHER	**W6**	RESERVED
W7	RESERVED	**W8**	RESERVED
W9	RESERVED		
X1	RESERVED	**X2**	RESERVED
X3	RESERVED	**X4**	RESERVED
X5	RESERVED	**X6**	RESERVED
X7	RESERVED	**X8**	RESERVED
X9	RESERVED		
Y1	RESERVED	**Y2**	RESERVED
Y3	RESERVED	**Y4**	RESERVED
Y5	RESERVED	**Y6**	RESERVED
Y7	RESERVED	**Y8**	RESERVED
Y9	RESERVED		
Z1	RESERVED	**Z2**	RESERVED
Z3	RESERVED	**Z4**	RESERVED
Z5	RESERVED	**Z6**	RESERVED
Z7	RESERVED	**Z8**	RESERVED
Z9	RESERVED		

NOTES:

1. X1 thru Z8 are reserved for MAJCOM use. (i.e., Exercises or users unique to a single command).
2. All other codes identified as RESERVED are for USAF standards as determined by OO-ALC/WMC.

Attachment 6

CONVENTIONAL MUNITIONS BASE SUPPORT PLAN,

CHAPTER 22, Part 1
MUNITIONS

References. List the references used to develop this chapter for part 1. Include instructions, technical orders, table of allowances, vehicle authorization lists, support agreements, etc.
1. Purpose. State the purpose of the chapter and the unit's mission. Example: This chapter identifies the munitions capabilities available at this location.
2. Personnel. List authorized personnel by skill level according to current UMD. For example:

3/5 Lvl	7 Lvl	9 Lvl	Off	Total
50	17	3	1	71

3. Vehicles. List the vehicles authorized and available by type, quantity, configuration and using functional area. State if it is land mobile radio (LMR) equipped. Include War Reserve Materiel (WRM) vehicles identified for munitions use. Identify whether they are in temporary storage or deep storage. For example:

3.1. (Unit)

Type	Auth.	O/H	LMR	Used By	Configuration
Bobtail	6	6	Yes	Line Delivery	Hazard placards installed, equipped w/2ea pintle hooks (P/N #MS51335-2) for side by side g towing
6K Forklift	1	1	N/A	Storage	
4K Forklift	1	1	N/A	PGM	Side shifter
6 PAX Trk	1	1	Yes	Supervision	Equipped with 1ea pintle hook (P/N #MS51335-2)
1 1/2 Ton Truck	2	2	Yes	Storage	Equipped w/ 12 volt light cable receptacle and 1ea pintle hook (P/N #MS51335-2)
10 Ton Tractor	4	4	Yes	Storage	
40' Trailer	4	4	N/A	Storage	
*6K RT Forklift	2	2		Storage	

Type	Auth.	O/H	LMR	Used By	Configuration
*7 ½ Ton Crane	1	1		Maintenance	

3.2. (WRM)

Type	Auth.	Qty	T/D*	Configuration
Bobtail	2	2	D	Equipped with 1ea pintle hook (P/N #MS51335-2)
6K Forklift	1	1	D	Side Shifter
1 1/2 Ton Truck	1	1	T	

*T/D = temporary storage/deep storage

4. Aerospace Ground Equipment (AGE). List the AGE authorized and available by type, quantity and using functional area. Include WRM AGE identified for munitions use. Identify whether they are in temporary storage or deep storage. For example:

4.1. (Unit)

Type	Auth.	O/H	Used By
Heater	1	1	Conv. Maint.
MJ-4 Bomblift	1	1	PGM
MJ-1 Bomblift	1	1	Conv. Maint.
TF-1 Liteall	2	2	1ea-PGM / 1ea-Conv. Maint.
*MC-7	2	2	Production
* Lowpac	2	2	Production

4.2. (WRM)

Type	Qty	T*	D*	Configuration
Heater	1	T		
Liteall	1	T		

*T/D = temporary storage/deep storage

5. Munitions Materiel Handling Equipment (MMHE). List the MMHE authorized and available by type and quantity. Include WRM MMHE and whether it is in temporary storage or deep storage. For example:

5.1. (Unit)

Type	Auth.	O/H
MHU-110	35	35
MHU-141	40	40
UALS	4	4
MAC	2	2

5.2. (WRM)

Type	Auth.	Qty	T*	D*
MHU-110	10	10	T	
MHU-141	6	6	T	

***T/D = temporary storage/deep storage**

6. Test Equipment, Special Tools and Support Equipment. List the tools and equipment authorized and available for current use and using functional area. For example:

Type	Auth.	O/H	Use	Used By
30 in-lb. Torque Wrench	1	1	GBU Assembly	Conventional Maintenance
150 in-lb Torque Wrench	1	1	GBU Assembly	Conventional Maintenance
TTU-373	1	1	CCG Testing	PGM
GCU-30/E	2	2	Recharging	PGM
TMU-72	13	13	Spares	PGM
Argon Cylinders	4	4	Recharging	PGM

Type	Auth.	O/H	Use	Used By
AN/DSM-162	1	1	Missile Testing	PGM
Pallet Jack	2	2	Pallet Positioning	1ea-Insp./1ea-Storage
*Universal Fin Actuator	2	2	Airfoil Group testing	Production

7. Communications. Identify available Land Mobile Radio (LMR) to include type and quantity of radios, number of nets dedicated to munitions, frequency, repeaters, call signs, etc. Frequency information may

already be referenced in the Command, Control and Communications Systems chapter of the BSP. If not, state it here. See Tab A for LMR capability.

8. Automated Data Processing Equipment (ADPE) and administrative support equipment. Identify available ADPE and administrative support equipment to include description, location and using functional area. For example:

Item	O/H	Loc.	Used By	Descript.
Safe	1	Bldg. 1325	Control	Standard Five Drawer
Fax Machine	1	Bldg. 1319	Supervision	GE 1542
Copier	1	Bldg. 1319	Supervision	Cannon 1210
Computer	1	Bldg. 1319	Administration	486 desktop w/printer
"	1	Bldg. 1325	Control	486 desktop w/printer
"	2	Bldg. 1325	Operations	486 CAS-D Notebook

9. Security. Describe the security systems and unique procedures for the munitions storage area (MSA) and operating locations not listed under the facilities tab. For example: During peacetime, access and security for the MSA is the responsibility of 2W0X1 personnel during day shift hours. During swing and mid shift hours and weekends, security is provided by two roving security patrols and access is obtained through Central Security Control. The perimeter of the MSA is enclosed by a six foot high, chain linked fence with two strands of concertina wire across the top. Perimeter lighting is provided by a light pole every 150 feet. For contingencies, consult your force protection specialists for determining the appropriate security measures for the threat at hand and the risk code of the weapon system. Remember to protect information while being transmitted (STU, secure fax, etc.).

10. Terrain Conditions. Identify the different conditions and what their effects might be on the operations. Do not confine your description to just the MSA. Include off-base ports and/or railheads. Describe any unique characteristics such as forested or barren area, road hazards, steep hills, bridges with load limitations, etc. For example: On K-1 pad there is a one degree slope starting at the SE edge and sloping down to the NW edge of the pad. MAC or dunnage used for bomb build-up operations should be positioned to use the slope for the assembly process in order to prevent munitions from being pushed up the slope as they are being assembled.

11. Facilities. List the facility number, use, utilities, type, dimensions, explosive limits, intrusion detection systems (IDS), loading/unloading dock capabilities, and any other relevant characteristics that would apply. Identify if facilities are shared with another branch of service or local nationals. Provide diagrams of facilities depicting dimensions, doorways, bathrooms, water sources, power outlet locations and voltage, phones (secure or unsecure), desks, bookcases, storage space, windows, etc. An example list follows this paragraph. See Tab B for facility layout example.

11.1. Utilities. The following codes are examples that can be used for identification purposes.

1. Water	**5. Restroom**	**9. 110V, 60 cycle**
2. Telephone	**6.** Emergency generator	**10.** Loading Dock
3. Secure Phone	**7.** 220V, 50 cycle, 3 phase	**11.** Interior Lighting
4. Compressed Air	**8.** 115V, 400 cycle	**12.** Exterior Lighting

Bldg. #/Function	Utilities Avail.	Remarks
Bldg. 1319/Supervision	1,2,5,9,11,12	**2**-Hotline to control
Bldg. 1325 Control/CAS-B	1,2,3,5,9,11,12	**2**-Hotlines to all munitions functions and reporting agencies **3**-1ea in Control/1ea in CAS-B
Bldg. 1320	11,12	

11.2. Explosive Locations

Bldg.	Function	Dimensions (LxWxH)	Exp. Limits in # (Haz. CL/Div)	Use	Remarks
1312	Standard Igloo	60x24x12	95,000-1.1	Sole	Front barricaded
1315	Multicubicle/8 Bays	25x10x9/BAY	425/Bay-1.1	Sole	Dual IDS (vibration & motion)
1320	Above Ground Mag	120x50x15	70,000-1.1	Joint	Barricaded
1322	Operating Loc.	100x80	23,000-1.1	Sole	2 Bays
K1	Operating Loc.	250x150	50,000-1.1	Joint	Gravel surface
K2	Operating Loc.	250x150	50,000-1.1	Joint	Gravel surface
K3	Operating Loc.	250x150	50,000-1.1	Joint	Gravel surface
K4	Operating Loc.	250x150	50,000-1.1	Joint	Gravel surface

12. Maps. Include a map of the MSA and other build-up/storage areas if located outside the MSA. Include a map that shows primary and alternate explosives routes between the MSA and aircraft parking ramp, hardened aircraft shelters (HAS), hot cargo pad, holding areas (if any), production sites, trailer holding areas, etc. If needed, include a map showing explosive routes to off-base storage sites, ports, rail-heads, etc. See Tab C for example of MSA map.

TAB A

EXAMPLE FOR RADIO CALL SIGNS

FUNCTION	CALL SIGN	TYPE	NET**
Flight Commander	Ammo 1	Vehicle	C/D
Chief/MASO	Ammo 2	Vehicle	C/D
Production Super/OIC	Pro 1	Hand-held	C/D
Material Super/OIC	Mat 1	Hand-held	C/D
Munitions Operations	FK	Hand-held	C/D
Control	Control	Base Station	C/D
Alternate Control	A/C	Base Station *	C/D
Mobile Control	M/C	Vehicle *	C/D
GP 1 Super	Iron 1	Hand-held	D
GP 2 Super	Iron 2	Hand-held *	D
GBU 1 Super	Iron 3	Hand-held	D
GBU 2 Super	Iron 4	Hand-held *	D
CBU	Iron 5	Hand-held	D
PGM Super	PGM Super	Hand-held	D
Air To Air	Air 1	Hand-held	D
Air To Ground 1	Air 2	Hand-held	D
Air To Ground 2	Air 3	Hand-held *	D
Quick Fix	Quick Fix	Hand-held *	C/D
Breakout Super	Breakout Super	Hand-held	D
Breakout Crew	Breakout 1	Hand-held	D
"	Breakout 2	Hand-held	D
"	Breakout 3	Hand-held *	D
"	Breakout 4	Hand-held *	D
"	Breakout 5	Hand-held *	D
"	Breakout 6	Hand-held *	D
"	Breakout 7	Hand-held *	D
Inspection Super	INS Super	Hand-held	D
Inspection Crew 1	INS 1	Hand-held	D
Inspection Crew 2	INS 2	Hand-held	D
Equipment Maint, Super	T/M Super	Hand-held	D
Equipment Maint, Crew 1	T/M 1	Hand-held	D
Equipment Maint, Crew 2	T/M 2	Hand-held	D

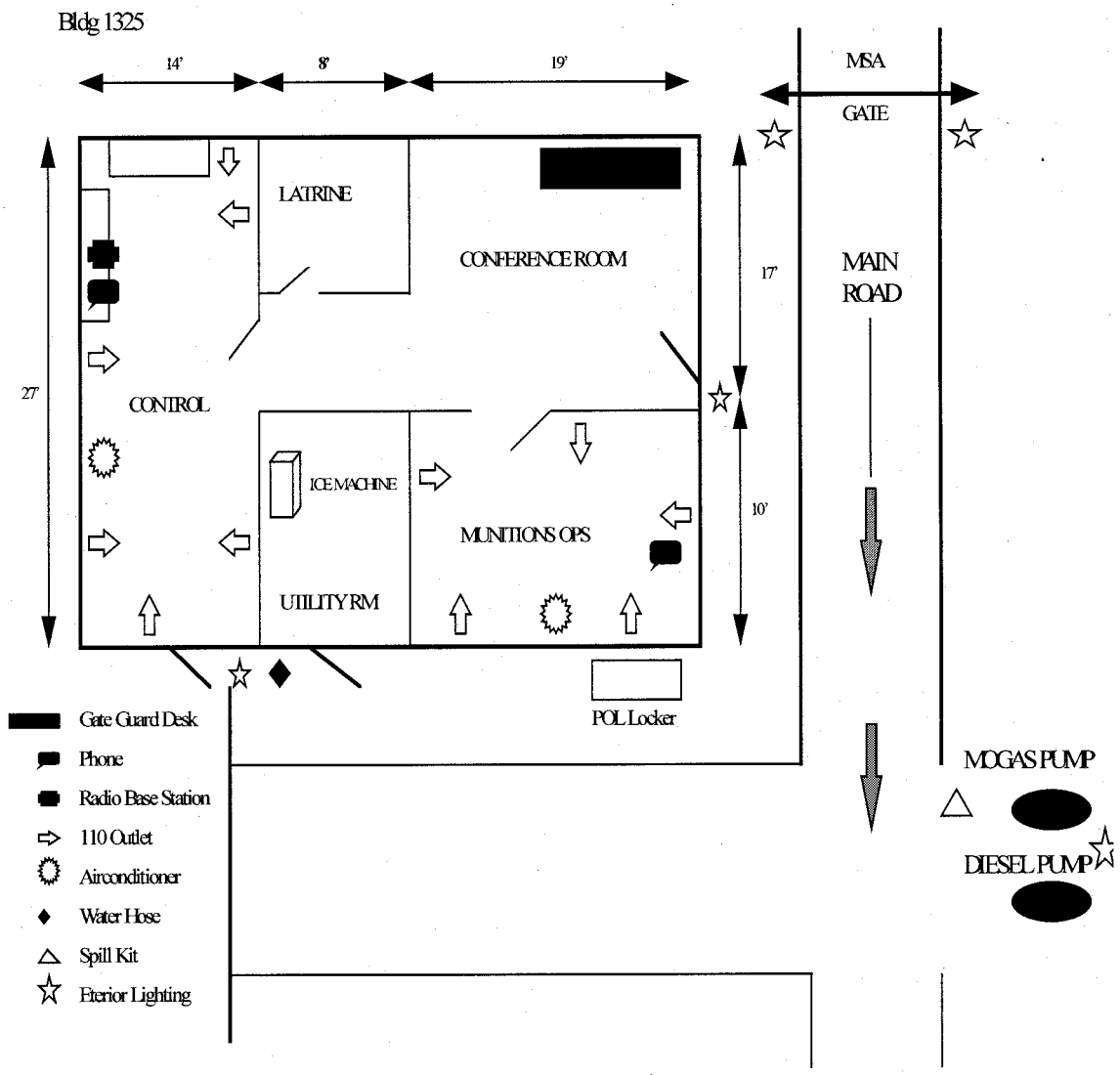
FUNCTION	CALL SIGN	TYPE	NET**
Line Delivery Super	L/D Super	Vehicle	C
Line Delivery Crew	L/D 1	Vehicle	C
"	L/D 2	Vehicle	C
"	L/D 3	Vehicle	C
"	L/D 4	Vehicle	C
"	L/D 5	Vehicle *	C
"	L/D 6	Vehicle *	C
"	L/D 7	Vehicle *	C
Line Expediter 1	Expediter 1	Vehicle*	C
Line Expediter 2	Expediter 2	Vehicle*	C
Line Expediter 3	Expediter 3	Vehicle*	C

* Used during contingencies/exercises only

** Net D is used during normal day-to-day operations. Nets C and D are used during contingencies and exercises

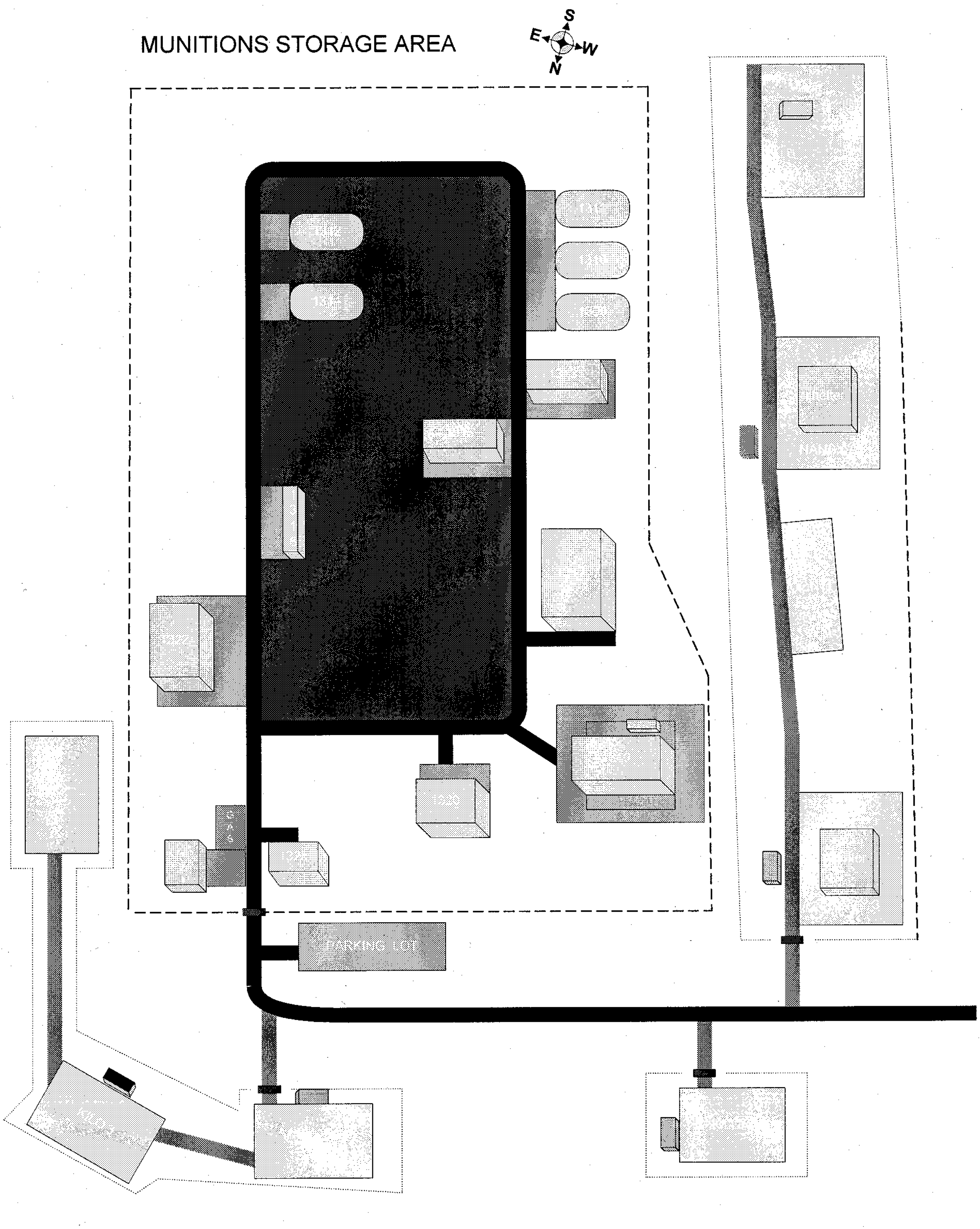
TAB B

EXAMPLE OF FACILITY LAYOUT FOR BLDG. 1325 (MUNITIONS CONTROL)



TAB C

EXAMPLE OF MUNITIONS STORAGE AREA LAYOUT



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Attachment 7

CONVENTIONAL MUNITIONS BASE SUPPORT PLAN,

CHAPTER 22, Part 2

MUNITIONS

References. List the References supporting this portion of the chapter.

1. Purpose. Briefly explain the purpose of this chapter. For example: The purpose of this chapter is to outline the responsibilities and standardize individual actions to successfully perform all munitions operations required to support the 9th Wing's contingency tasking. To prevent duplication of some of the information contained in Part 1, references will be made to the appropriate attachment, tab, or exhibit.

2. Pre-Conflict Measures. Identify responsibilities the Munitions Flight Commander/NCOIC must initiate upon notification of plan implementation. One way to develop a pre-conflict checklist is by developing a flow plan of actions that must take place. For example: Upon intelligence of impending implementation of OPLAN XXX, all section and element chiefs will be recalled and briefed. Element chiefs will notify all their respective personnel to be on telephone stand-by and call-in appropriate personnel to accomplish element pre-conflict checklists. Munitions Control will run flight pre-conflict checklist and provide 24-hour coverage.

3. Flight Organizational. State who will be in charge, who reports to whom, the chain-of-command within your own unit and after units are integrated. For example: The Flight Commander/AMMO Chief of the 9th Munitions Flight are in-charge of all munitions support operations for the 9th Wing and the 9th Provisional Wing. (See Exhibit A under the tab for Supervision). The two top-ranking deploying officer/enlisted person(s) will work split shifts.

4. Integration of Incoming Forces/Augmentees. State how the units will be integrated into the existing operations until the manning in Attachment A under the tab for Resources is reached. For example: Upon arrival of first deploying unit, AMMO Chief will meet the deploying senior representative and direct half of the deploying unit to report to the MSA for integration into operations. The Munitions Storage element will be first priority for integrating deployed personnel, followed by bomb production areas. Augmentees will be split between Guided Bomb Unit (GBU) and General Purpose (GP) bomb pads. If augmentees arrive sporadically, the GBU pad gets the first augmentee, the GP pad gets the second augmentee, GBU gets third, etc.

5. Key Assumptions. List key assumptions essential to make this plan successful. Consider availability of prepositioned assets, access to operational facilities, communications, and configuration of deploying aircraft, etc. For example: Transportation resources such as designated munitions WRM vehicle requirements stated in Part 1 Transportation chapter will be available and allocated as authorized. Incoming forces will deploy with all required equipment, personnel and materials as identified in their respective UTCs.

6. Supply Distribution. Identify supply requirements, source and distribution procedures relevant to munitions operations. For example: Initial support is from Readiness Spares Packages (RSP), prepositioned assets, and host-nation support. Identify requirements for common consumable supplies such as, banding materials, dunnage, nails and copier paper. There must be enough consumable supplies being deployed to support munitions operations for 30 days. If operations continue, replenishment of the following consumables will be needed. All the needed consumables can be purchased from the host nation within a day or two through the contracting office. Replenishment can also be through normal channels of the supply system. However, the expected time for requisition and delivery is 1 to 2 weeks. **The below listing is an example of consumables that can be loaded on an RSP kit at supply and be shipped with UTC when tasked.**

CONSUMABLES	NSN	P/N or MIL-SPEC
Banding, Steel, 3/4”	8135-00-261-4397	
Banding, Steel, 1-1/4”	8135-00-283-0671	
Oil, Lube, General Purpose	9150-00-458-0075	MIL Spec 36G2W1

7. Petroleum, Oils, and Lubricants (POL) Distribution. Consider POL requirements, source and distribution procedures relevant to the munitions operations. POL for aerospace ground equipment (AGE) and vehicles must be identified and coordinated with the Fuels Management Flight during the planning phase to ensure availability. For example: Fuel is provided by host wing. Two 500 gallon tanks (1ea. - diesel and 1ea - mogas) are located in the MSA behind building 1325. When either fuel tank is down to 200 gallons, Fuels Management must be contacted for refill. Fuel Management’s response time is 6 to 8 hours after notification.

8. Maintenance of Vehicles and Equipment. Coordinate with AGE and Vehicle Maintenance sections on the procedures and what the unit’s priority is for repair and maintenance of vehicles and equipment. For example: Munitions Flight is number three on Transportation Squadron’s repair priority list, emergency vehicles are number one followed by force protection vehicles. Due to the expected excessive use of vehicles and AGE, arrangements have been made through the contracting office to use three local host nation repair shops in addition to deployed personnel. Transportation Squadron’s vehicle Maintenance Control will be contacted for vehicle support and Maintenance Operations Center (MOC) will be contacted for AGE support.

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TAB A

TASKED ORGANIZATION

References. List references supporting this attachment.

1. Tasked Organization. Use the Time-Phased Force and Deployment List (TPFDL) to list pertinent organizations supporting this plan. Using the TPFDL, get the essential information to know when, how many, where, etc., for plan development. At the time of OPLAN implementation, a check should be made with Logistics Plan Flight to ensure no changes have been made to the TPFDL. The TPFDL, a computer-generated listing of data elements from the Time-Phased Force and Deployment Data (TPFDD), identifies tasked units, the type and quantity of primary aircraft inventory (PAI), unit type codes (UTC), port of debarkation (POD), earliest arrival date (EAD), latest arrival date (LAD) and various other data for plan development. Utilizing this information, the planner can see when the aircraft and munitions support packages are scheduled to depart and/or arrive, what will arrive first, aircraft or munitions support packages, etc. Definitions to TPFDL data elements are found in AFMAN 10-401. Identify this information by using TPFDL as an attachment to this tab or reference it.

NOTE: Munitions listed on the TPFDL are "unit cargo" only and should not be confused with munitions resupply. Munitions resupply information is classified as "non-unit cargo". This information is acquired by the MAJCOM functional manager by different means and sourced through OO-ALC/SMCA. See Munitions In/Out Shipments tab for requirements.

1.1. In-Place Unit

QTY	TYPE	SQ.
18	F-16C	45 FS
18	F-15E	24 FS

1.2. Inbound Unit

UTC	DESCRIPT.	PERS	ORIGIN	POD	MODE	EAD	LAD
3FYK2	18 A-10A	236	Shaw	Shaw	Air	C+01	C+03
HGZYX	Munitions	35	Shaw	Shaw	Air	C+01	C+03

2. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N for what exists, (i.e., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

TAB B

AIR MUNITIONS REQUIREMENTS

References. List References, i.e., OPLANs, Joint Support Plans, War Consumables Distribution Objective (WCDO), Pre-Air Tasking Order/Integrated Tasking Order (Pre-ATO/ITO), Non-nuclear Consumable Annual Analysis (NCAA), Standard Configuration Load (SCL) instructions, Sortie Rates (SR), War and Mobilization Plan (WMP), etc.

1. Munitions Requirements. This tab reflects the type and quantity of munitions the unit is tasked to breakout, buildup and deliver from the very beginning of OPLAN implementation to the end. The WCDO, Appendix 6 to Annex D of OPLANs, and the unit Pre-Air Tasking Order/Pre-Integrated Tasking Order (ATO/ITO), contain information on these consumable requirements. These documents outline munitions that are to be prepositioned, assembled, or shipped, as well as received, at designated times to support what the planners anticipate to be expended daily throughout the conflict. Coordination with OG and LG plans functions is essential in this area. This information is extremely useful once analyzed in determining workload requirements, master storage plan, etc. Use this formula to compute the daily consumption rate of each item, if needed: PAI x SR x SCL x Expenditure Per Sortie Factor (EPSF). Information used with this formula can be found in the operational plan, planning functions for the LG and OG and in the references for this tab. The information listed in the OPLAN is anticipated and should be fairly accurate, but always keep in mind, things change. Once the requirements are figured out you can then produce a Detailed Build Analysis from CAS-D to determine how many days of sustainment of munitions you have in starter stocks and identify your swing stock requirements. Use actual documents, such as the WCDO, Pre-ATO/ITO, Detailed Build Analysis and the Air Munitions Requirements from the OPLAN, as attachments to this tab or reference them. Refer to Tab D for the definition of each phase listed below.

1.1. Phase I Generation. Identify the munitions requirements needed for the initial load of your PAI upon OPLAN execution.

1.1.1. Pre- ATO/ITO. These tasking orders apply to an in-place unit and could possibly apply to a deploying unit depending on their respective mission (i.e., hitting targets on the way to the deployed location). The tasking orders are developed from intelligence sources identifying targets that need to be eliminated upon execution of the OPLAN. This analysis drives what is pre-built, needs to be built, and possibly trailerized. (See attachment 1).

1.1.2. Tactical Arm Deployment (TAD). This tasking is found in the TAD document provided by your MAJCOM. It shows the required air-to-air “defense” munitions for the deploying PAI enroute to their designated locations.

1.1.3. Tactical Ferry. Munitions loaded on the deploying aircraft prior to flying to their designated location (i.e., transporting munitions in place of transporting via cargo aircraft).

1.2. Phase I Deployment. Identify munitions required to be deployed with the unit and out-shipment requirements.

1.2.1. Unit Support Munitions. Identify munitions required to support a munitions unit (e.g., small arms ammunition, distress signals, etc.).

1.2.2. Out-Shipment Requirements. Identify the munitions tasked to be shipped out. This information would be identified in the Munitions In/Out Shipments tab. Refer to Tab G for more information.

1.3. Phase I Regeneration. Identify the munitions required once the aircraft land at their designated location.

1.3.1. Pre-ATO/ITO. This tasking order would apply to deploying units that were tasked to load TAD munitions at their home station.

1.4. Phase II Employment. Identify the munitions required to sustain fighter/bomber operations throughout the conflict as reflected in the WCDO and the Air Munitions Requirements listed in the OPLAN. The WCDO is an annual document that provides the WRM prepositioning requirements for selected war consumables in support of wartime activities. The air munitions requirements and expected daily expenditure chart in Annex D of the OPLAN depict what planners anticipate is required and expended throughout the conflict. Be sure to consider cross-servicing and notional tasking requirements.

1.4.1. Detailed Build Analysis Report. Use the WCDO and Air Munitions Requirements to analyze the munitions requirements by producing a Detailed Build Analysis report from CAS-D. (See Attachment 2).

2. Operational Constraints/Shortfalls/LIMFACs. If any exist, state “See Tab N” for what exists (i.e., “operational constraint, shortfall, or LIMFAC”). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

Attachments:

1 - Pre-ATO

2 - Detailed Build Analysis

ATTACHMENT 1

PRE-AIR TASKING ORDER

A/C	SCL	NOSE FUZE	TAIL FUZE	AMMO	TIME
6 x F-15E	10x MK-82C / BRU	M904 / 8 sec/Non delay	M905 / 8 sec/Non-delay	20mm	D-day H-hr
5 x F-16C	4 x GBU-10J/B / Rack	N/A	FMU-143 / 12 sec./.06 sec	20mm	D-day H-hr
7 x F-16C	4 x CBU-52/TER-2 B/O	MK339 / Pr.5.3 /Op 6.1	N/A	20mm	D-day H-hr
6 x F-15E	4 x GBU-24/B / BRU	FMU-81 / Safe /.25	FMU-81 / Safe /.25	20mm	D-day H-hr +1
6 x F-15E	12 x MK-82C / BRU	FMU-113 / 6 Sec.	N/A	20mm	D-day H-hr +1
6 x F-16C	4 x MK-84A / Rack	NSC	FMU-139A/B / LD 6 /HD 2.6/25	20mm	D-day H-hr +1
6 x F15E	8 x CBU-87B/B / BRU	Arm Time R / Spin 1	N/A	As Req	D-day H-hr +3
6 x F-16C	4 x CBU-87B/B / Rack	Arm Time P / Spin 1 ECM On / Hof C	N/A	As Req	D-day H-hr +3
4 x F-15E	4 x GBU-10E/B / BRU	NSC	FMU-139A/B / LD 20 /HD 4.0/Inst	As Req	D-day H-hr +3
6 x F-16C	6 x GBU12D/B / Rack	NSC	FMU-139A/B / LD20 /HD 2.6/25	As Req	D-day H-hr +5
6 x F-15E	4 x MK-84C / BRU	M904 / 16 Sec/.050 Delay	M905 / 16 Sec/.050 Delay	As Req	D-day H-hr +5
4 x F-16C	6 x MK-82A / TER FHD	NSC	FMU-139A/B / LD20 /HD5.0/Inst	As Req	D-day H-hr +5

ATTACHMENT 2

DETAILED BUILD ANALYSIS REPORT

EXAMPLE PAGE OF A CAS-D REPORT

PREPARED 16 MAR 95 18:45 — Detailed Build Analysis Report — PCN SD078Z80AR
On Build Generated 12 DEC 1994 18:28
Priority Build for SRAN FV6000 ALKOP AB S. BERNINIA

PRI#	ITEM		NOUN				BUILD RQMT	BUILD CAP	% SUPP	MAX BUILD
0001	BC21H	MK82C	904/905 N/T				60	60	100	237
	COMP		NOUN	DODIC	QTY REQ.	TOT REQ.	ASSETS	BUILD MAX		USED
	01	BOMB GP MK82-1 TRITONAL W/LUGS		E485	1	60	1180	1180		60
	02	FIN ASSY BMB MAU-93/B F/MK82		F664	1	60	499	499		60
	03	FUZE BOMB NOSE M904E3		F835	1	60	712	712		60
	04	FZE BMB TAIL M905		F989	1	60	550	550		60
	05	ADAPTER BSTR BMB NOSE 745E7		F372	1	60	0	0		0
	05	ADAPTER BSTR BMB NOSE 745E7		F380	1	60	0	0		0
	05	ADAPTER BSTR BMB NOSE 745E7		F386	1	60	0	0		0
	05	ADAPTER BSTR BMB NOSE 745E7		F411	1	60	1441	1441		60
	06	ADAPTER BSTR BMB TAIL XM147		F387	1	60	0	0		0
	06	ADAPTER BSTR BMB TAIL XM147		F382	1	60	0	0		0
	06	ADAPTER BSTR BMB TAIL XM147		F409	1	60	579	579		60
	07	DRIVE ASSY ATU 35/BB		BY29	1	60	5800	5800		60
	08	COUPLER DRIVE ASSY MAU-87/B		EY91	1	60	2720	2720		60
	09	SHAFT DRIVE MAU-86/B-5		F493	1	60	2192	2192		60
	10	ARMING WIRE BULK F/GP BOMBS		BY31	10	600	141000	14100		600
	11	FERRULE ARMING WIRE		EY21	2	120	44722	22361		120
	12	SWIVEL & LINK SINGLE MAU-166/A		CY72	2	120	0	0		0
	12	SWIVEL & LINK SINGLE MAU-166/A		G287	2	120	72000	36000		120
	13	CLIP SAFETY FZU-18/B		EY74	2	120	3591	1795		120
	14	DELAY ELEM FZE BMB M9 NONDEL		G212	2	120	474	237		60

PRI#	ITEM		NOUN				BUILD RQMT	BUILD CAP	% SUPP	MAX BUILD
0002	BL9CA	GBU-10 PW-II	FMU143				20	20	100	26
	COMP		NOUN	DODIC	QTY REQ.	TOT REQ.	ASSETS	BUILD MAX		USED
	01	BOMB, BLU 109/B		F140	1	20	26	26		20
	02	CCG GB MAU-169D/B		E069	1	20	180	180		20
	03	FIN ASSEMBLY, BOMB MXU-651/B		F761	1	20	76	76		20
	04	FUZE SYSTEM BOMB, FMU-143B/B		F809	1	20	56	56		20

PRI#	ITEM		NOUN				BUILD RQMT	BUILD CAP	% SUPP	MAX BUILD
0003	C521B	CBU-52	MK 339				28	28	100	358
	COMP		NOUN	DODIC	QTY REQ.	TOT REQ.	ASSETS	BUILD MAX		USED
	01	DISP & BOMB, ACFT CBU-52B/B		E800	1	28	416	416		28
	02	FUZE BMB NOSE MK 339 MOD 1		F740	1	28	358	358		28
	03	ADAPTER KIT ADU-449/B		F370	1	28	459	459		28
	04	ARMING WIRE BULK F/GP BOMBS		BY31	10	280	140982	140982		280
	05	FERRULE ARMING WIRE		EY21	2	56	44686	22343		56
	06	SWIVEL & LINK SINGLE MAU-166/A		CY72	2	56	0	0		0
	06	SWIVEL & LINK SINGLE MAU-166/A		G287	2	56	71964	35982		56

TAB C

RESOURCES

References. List documents used to determine resources. Include table of allowances, vehicle authorization lists, instructions, support agreements, deployment manning document, etc.

1. Resources. The following paragraphs depict resource requirements, including those that deploy with the unit. Consolidate all required resources. Use charts, diagrams or actual flight, squadron and/or wing documents as attachments to this tab to provide as much detailed information and explanation as possible. The categories depict the critical resources most often mentioned, if needed, other categories should be included accordingly. Explanations for the shortages should be identified in the respective attachments. Some examples follow this tab. Consider as a minimum:

1.1. Personnel Requirements. Provide overall personnel requirements (required and on-hand) for the munitions operations to be performed. Include augmentees and their intended use. Identify those personnel both in-place and deploying. Identify to which functional area they are assigned. For deploying personnel, use the Manpower Force Packaging System, derived from the Contingency Operation/Mobility Planning and Execution System, (COMPES), to identify skill level and Functional Account Code (identifies present job). See Attachment 1 for an example. Keep in mind environmental and working conditions which may impact workers' performance.

1.2. Vehicle/AGE/MMHE Requirements. Identify those resources required to support munitions operations. Identify all requirements, those assets prepositioned and War Reserve Materiel (WRM), and their respective locations and intended use. These exhibits can be separate or combined. See Attachments 2, 3 and 4 for examples.

1.3. Test and Measurement/Diagnostic Equipment (TMDE), Special Tools, and CTKs. Identify those resources to include tools, equipment, benchstock, technical data, publications, etc., required to support munitions operations. Identify all requirements, to include assets prepositioned and WRM with their respective locations, and intended use.

NOTE: For deploying equipment (e.g., vehicles, AGE, MMHE, TMDE, Special Tools, CTKs, communication requirements, and administrative supplies, ADPE, etc.), use the Logistics Force Packaging System (LOGFOR) (derived from the COMPES), to identify quantity and types.

1.4. Communication. Identify in-place and deploying LMR equipment, fax machines, field phones, secure phones, etc. Identify what is required and on hand.

1.5. Administrative Supplies and ADPE. Identify computers, typewriters, shredders, safes, etc., to include approval for classified use.

1.6. Facilities. Identify the use of each facility during the conflict (i.e., what operations will be conducted where). Layouts for operating locations not presented in Part 1 of the BSP should be an exhibit to the respective functional area.

2. Operational Constraints/Shortfalls/LIMFACs. If any exist, state “See Tab N” for what exists, (i.e., “operational constraint, shortfall, or LIMFAC”. Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

Attachments:

1 - Personnel

2 - Vehicles

3 - Aerospace Ground Equipment (AGE)

4 - Munitions Materiel Handling Equipment (MMHE)

ATTACHMENT 1

EXAMPLE FOR PERSONNEL

1. Requirements.

1.1. In-Place.

Section	**3/5 Lvl**	**7 Lvl**	**9 Lvl**	**Off**	**Chief**
Supervision	0	0	3	1	1
Control	4	2	0	0	
CAS-B	1	2	0	0	
Conv. Maint.	25	5	0	0	
Inspection	4	2	0	0	
Storage	18	4	0	0	
Total	52	15	3	1	

1.2. Deploying.

(UTC: HGZYX) - EAD = D+2

Skill Lvl.	**Qty.**
Officer	0
***2W000**	1
9 Level	1
7 Level	7
3/5 Level	27
Total	36

1.3. Total Combined Personnel.

Skill Lvl.	**Req.**	**Avail. (In Place)**	**Avail. D+2**	**Total Avail.**
Officer	1	1	0	1
2W000	1	1	1	1
9 Level	4	3	1	4
7 Level	22	15	7	22
3/5 Level.	79	52	27	79
Total	107	72	36	107

ATTACHMENT 2

EXAMPLE FOR VEHICLES

1. Requirements.

1.1. Deploying

Type	Qty	LMR	Element
Bobtail	6	Yes	Line Delivery
6K Forklift	2	N/A	1 ea.-Storage / 1 ea.-Conv. Maint.
4K Forklift	1	N/A	PGM
6 PAX Trk	1	Yes	Supervision
1 1/2 Ton Truck	2	Yes	Storage

1.2. Total Combined Vehicles.

Type	Req.	O/H	WRM	Deploying	Total	Element
Bobtail	14	6	2	6	14	Line Delivery
6K Forklift	4	1	1	2	4	3 ea.-Storage / 1 ea.-Conv. Maint.
4K Forklift	2	1	0	1	2	1 ea.-PGM / 1 ea.-Storage
6 PAX Truck	2	1	0	1	2	Supervision
1 1/2 Ton Truck	5	2	1	2	5	Storage
10 Ton Tractor	4	4	0	0	4	Storage
40’ Trailer	4	4	0	0	4	Storage

ATTACHMENT 3

EXAMPLE FOR AEROSPACE GROUND EQUIPMENT (AGE)

1. Requirements.

1.1. Deploying.

(UTC: HHZXY)

Type	Qty	Element
Heater	2	1 ea.-Storage / 1 ea.-Conv. Maint.
MJ-4 Bomblift	1	PGM
MJ-1 Bomblift	1	Con. Maint.
TF-1 Lite-all	1	Conv. Maint.

1.2. Total Combined AGE.

Type	Req.	O/H	WRM	Deploying	Total	Element
Heater	4	1	1	2	4	1 ea.-Stor/1 ea.-PGM/2 ea.-Conv. Maint.
MJ-4 Bomblift	2	1	0	1	2	PGM
MJ-1 Bomblift	2	1	0	1	2	Conv. Maint.
TF-1 Lite-all	4	2	1	1	4	1 ea.-PGM / 3ea-Conv. Maint.

ATTACHMENT 4

EXAMPLE FOR MUNITIONS MATERIEL HANDLING EQUIPMENT (MMHE)

1. Requirements.

1.1. Deploying.

(UTC: HHZXY)

Type	Req.	Qty.
MHU-110		25
MHU-141		35
UALS		4
MAC		2

1.2. Total Combined MMHE.

Type	Req.	Req.	O/H	WRM	Deploying	Total
MHU-110		70	35	10	25	70
MHU-141		81	40	6	35	81
UALS		8	4	0	4	8
MAC		4	2	0	2	4

TAB D

OPERATIONS TO BE CONDUCTED

References.

1. General. This tab describes responsibilities and actions required from the start of OPLAN execution to the end at which time the unit will redeploy forward or back to their home station. Describe what must take place to support the OPLAN tasking. Include as much information and explanation as possible. Information in this tab should be geared to the major responsibilities and actions required to meet mission needs and can form the basis of emergency action checklist(s) for Munitions Control. Specific internal functional area responsibilities, actions and resources required to fulfill these responsibilities will be reflected in their respective attachment in the Munitions Functions tab. It is important to note that your unit's mission(s) and location (staying in-place or deploying) will dictate how you will write the three portions for Phase I operations. Try and keep them separate if possible. However it will be difficult since there are so many actions taking place simultaneously and overlapping (e.g., operations started in one phase in preparation for operations in another phase). Develop flow/timelines/plans for as many operations as possible. Flowplans help the planner identify tasks that aren't being accomplished, support that isn't being provided at the time expected, foreseeable problem areas, and can provide a quick reference for the user and Munitions Control for tracking purposes.

1.1. Phase I Generation. Phase I Generation will include everything from a recall to the upload of required munitions on the aircraft. As mentioned before, no matter what your mission(s) is/are there will always be other actions taking place. Consider as a minimum: Pre-conflict measures; heightened security; recall procedures; manning updates; vehicle/AGE/MMHE check out; wing concept meetings; download of all training items from PAI; and pre-fuzing, breakout, build-up, and delivery of Pre-ATO/ITO or TAD munitions. Other things to consider will be setting up for Ability To Survive and Operate, in/out shipments, initial accountability reporting procedures, setting up operations, picking up WRM vehicles, etc. Describe the actions for the sections to support this Phase.

1.1.1. Materiel will:

1.1.2. Systems will:

1.1.3. Production will:

1.2. Phase I Deployment. Phase I Deployment will include everything from assembling and marshaling mobility packages and personnel to loading and leaving. As mentioned in Phase I Generation, there will be many actions taking place simultaneously and overlapping into each phase, especially Phase I Generation and Deployment. Consider as a minimum: additional wing concept meetings; notifying personnel of load times; preparing equipment and munitions (if required) for marshaling and loading; shift schedules; etc. Consider the other possible actions that may be initiated during this phase or continuing from Phase I Generation.

1.2.1. Materiel will:

1.2.2. Systems will:

1.2.3. Production will:

1.3. Phase I Regeneration. This phase includes all actions necessary to beddown incoming/deploying forces (i.e., marshal equipment and personnel, set up munitions operations or integrate with existing operations), download the TAD munitions from the PAI, and the build-up, delivery, and upload of Pre-ATO/ITO munitions or other munitions if the PAI were loaded at home station for a mission en route. Integrating into existing operations or deploying into a Collocated Operating Base/Main Operating Base (COB/MOB) will play a very major role in what needs to be accomplished first. Consider what needs to be built first, who will marshal the equipment, and who will downstack trailers. Establishing priorities for the equipment marshaling, setting up operations, munitions breakout, build-up, and delivery will aid you in developing a flowplan to accomplish these actions. Starting with your Pre-ATO/ITO, develop a Priority Build List. This will dictate which assembly areas need to be "Complete Round Capable" first, second, and so forth. In turn, identify what equipment needs to be delivered where and in what priority. The assembly crews can then use the Priority Build List to prioritize their munitions component delivery. Storage crews can then combine all Prioritized Component Listings and develop a Prioritized Breakout Scheme.

1.3.1. Materiel will:

1.3.2. Systems will:

1.3.3. Production will:

1.4. Phase II Employment. This phase is simply sustained munitions production. Keep in mind, we will never know how much time we'll have to accomplish all actions required to get to this phase. It is conceivable you could beddown incoming forces while being attacked. However, this is written with the understanding there was time to accomplish all the actions for Phase I operations. All munitions operations should be up and running to accommodate continuous munitions production. During this phase, frag changes and cross-servicing will occur. Next-day munitions fragmentary requirements are developed nightly (wing frag meeting) by wing operators working with a munitions representative in deciding what munitions are required/available for the designated targets identified on the ATO/ITO.

1.4.1. Materiel will:

1.4.2. Systems will:

1.4.3. Production will:

1.5. Recovery Operations/Redeployment. These two operations go hand-in-hand. Recovery operations could cover actions necessary to bring a unit either back up to, or down, from a specified level of readiness, fixing/repairing equipment and buildings, turning in unserviceable/excess munitions, tear-down of built-up munitions, certification of empty containers, and general clean-up of equipment, residue, and work areas to name a few. Redeployment is the preparing, packing, certifying and marshaling of all equipment, munitions and residue in order to redeploy forward to set-up operations again or return to home station.

1.5.1. Materiel will:

1.5.2. Systems will:

1.5.3. Production will:

2. Operational Constraints/Shortfalls/LIMFACs. If any exist, state “See Tab N” for what exists, (i.e., “operational constraint, shortfall, or LIMFAC”). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

TAB E

MUNITIONS FUNCTIONS

General. This tab identifies the major functions, their responsibilities, and specifics about each. Titles may differ depending on MAJCOM assignment.

ATTACHMENTS:

1 - Supervision

2 - Munitions Control

3 - Combat Ammunition System-Base

4 - Munitions Operations

5 - Storage/Breakout

6 - Inspection

7 - Conventional Maintenance

8 - Precision Guided Munitions Maintenance (PGM)

9 - Munitions Delivery

10- Equipment Maintenance

ATTACHMENT 1

SUPERVISION

References. List the references used to develop this attachment. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down, i.e., Ammo Chief writes section chief's.

1.1. Flight Commander/Chief.

1.2. Systems Super.

1.3. Materiel Super.

1.4. Production Super.

2. Resources. Identify what resources (personnel per shift, facilities, vehicles, communication, administrative supplies/ADPE) are needed to perform assigned tasks. These requirements will be consolidated with all the other munitions functions into their respective attachments under the Resources tab. Identify the number of personnel assigned to each shift, shift hours and shift change procedures to ensure all information is passed on.

3. Operations and Requirements. Identify all duties required to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Provide as much detail as possible here to cover all tasks - remember you are writing this as much for yourselves as well as for the personnel that will replace you! Identify shift hours and shift change procedures to ensure all information is passed on. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means **all inclusive.** You will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.4. Phase II Employment.

3.5. Recovery Operations/Redeployment.

4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what exists, (i.e., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

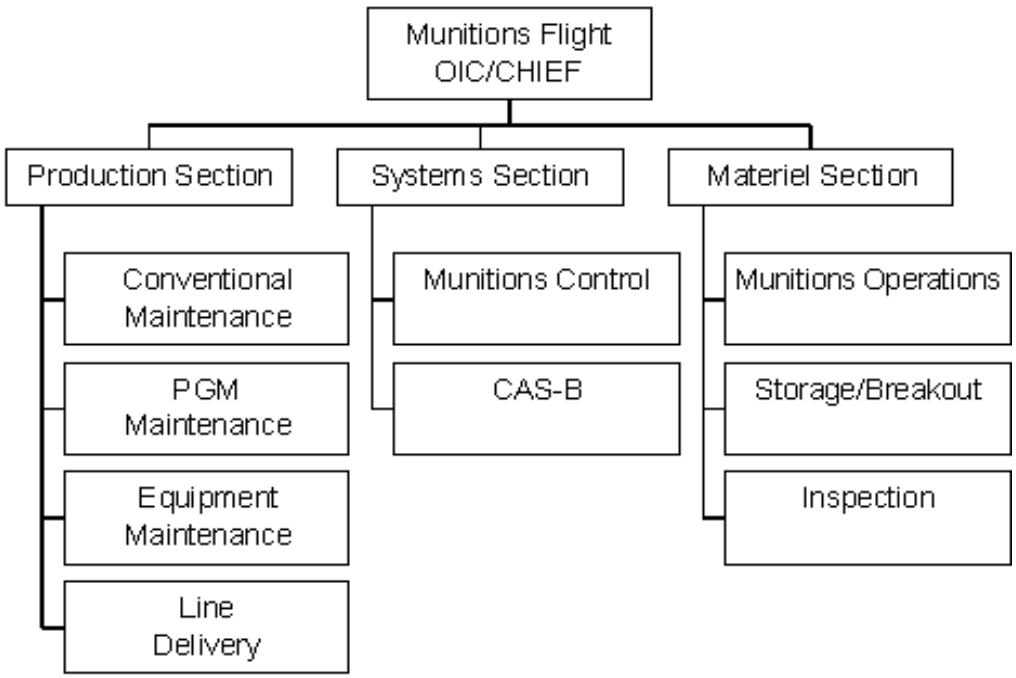
Exhibits:

A - Flight Organizational Chart.

EXHIBIT A

FLIGHT ORGANIZATIONAL CHART

Example of a flight chart depicting lines of authority.



ATTACHMENT 2

MUNITIONS CONTROL

References. List the references used to develop this attachment. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down. That is the section chief writes element chief's, element chief writes senior controller's, senior controller writes board controller's.

1.1. Element Chief.

1.2. Senior Controller

1.3. Board Controllers.

2. Resources. Identify what resources (personnel per shift, facilities, communication, administrative supplies and ADPE) are needed to perform assigned tasks. These requirements will be consolidated with the other munitions functions into their respective attachments under the Resources tab.

3. Operations and Requirements. Identify all duties required to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Provide as much detail as possible here to cover all tasks. Remember, you are writing this as much for yourselves as well as for the personnel that will replace you. A few examples of tasks to consider would be: manning reporting, the use of flowplans, how status'(NEW, complete round, fire symbol changes, vehicles, AGE, MMHE, personnel, work in progress, etc.) will be tracked and frag meetings conducted, frag changes handled, trailer control and key control procedures, control and flightline expediter procedures, set-up of alternate control, integration of incoming forces, classified item tracking, additional security precautions and procedures, shift hours, shift change procedures to ensure all information is passed on, back-up power, and comm-out procedures to just name a few. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means all inclusive. You will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.4. Phase II Employment.

3.5. Recovery Operations/Redeployment.

4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what exists, (i.e., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

Exhibit:

A - Initial Trailer Configuration Plan/Pre-ATO Trailer Control Plan

EXHIBIT: A

INITIAL TRAILER CONFIGURATION PLAN / PRE-ATO TRAILER CONTROL PLAN

LINE	A/C	DEL. TIME	SCL	L/D	TRLS.	REMARKS
1	F-15E	H-HR	10x MK-82C	1	1 x 110 TRL W/ 15ea	Turn for Lines 53, 54
2	F-15E	H-HR	10x MK-82C	↓	↓	
3	F-15E	H-HR	10x MK-82C	↓	1 x 110 TRL W/ 15ea	Turn for Lines 55, 56
4	F-15E	H-HR	10x MK-82C	↓	1 x 110 TRL W/ 15ea	
5	F-15E	H-HR	10x MK-82C	2	↓	Turn for Lines 57, 58
6	F-15E	H-HR	10x MK-82C	↓	↓	
7	F-16C	H-HR	4 x GBU-10J/B	3	1 x 110 TRL	Turn for Line 63
8	F-16C	H-HR	4 x GBU-10J/B	↓	1 x 110 TRL	Turn for Line 64
9	F-16C	H-HR	4 x GBU-10J/B	4	1 x 110 TRL	Turn for Line 65
10	F-16C	H-HR	4 x GBU-10J/B	↓	1 x 110 TRL	Turn for Line 66
11	F-16C	H-HR	4 x GBU-10J/B	5	1 x 110 TRL	Turn for Line 67
12	F-16C	H-HR	4 x CBU-52	6	1 x 141 TRL	Turn for Line 59
13	F-16C	H-HR	4 x CBU-52	↓	1 x 141 TRL	Turn for Line 60
14	F-16C	H-HR	4 x CBU-52	1	1 x 141 TRL	Turn for Line 61
15	F-16C	H-HR	4 x CBU-52	↓	1 x 141 TRL	Turn for Line 62
16	F-16C	H-HR	4 x CBU-52	2	1 x 141 TRL	
17	F-16C	H-HR	4 x CBU-52	↓	1 x 141 TRL	
18	F-16C	H-HR	4 x CBU-52	3	1 x 141 TRL	
19	F-15E	H-HR+1	4 x GBU-24/B	4	1 x 110 TRL	Turn for Line 68
20	F-15E	H-HR+1	4 x GBU-24/B	↓	1 x 110 TRL	
21	F-15E	H-HR+1	4 x GBU-24/B25	5	1 x 110 TRL	
22	F-15E	H-HR+1	4 x GBU-24/B	↓	1 x 110 TRL	
23	F-15E	H-HR+1	4 x GBU-24/B	6	1 x 110 TRL	
24	F-15E	H-HR+1	4 x GBU-24/B	↓	1 x 110 TRL	
25	F-15E	H-HR+1	12 x MK-82C	1	1 x 110 TRL	
26	F-15E	H-HR+1	12 x MK-82C	↓	1 x 110 TRL	
27	F-15E	H-HR+1	12 x MK-82C	2	1 x 110 TRL	

LINE	A/C	DEL. TIME	SCL	L/D	TRLS.	REMARKS
28	F-15E	H-HR+1	12 x MK-82C	↓	1 x 110 TRL	
29	F-15E	H-HR+1	12 x MK-82C	3	1 x 110 TRL	
30	F-15E	H-HR+1	12 x MK-82C	↓	1 x 110 TRL	
31	F-16C	H-HR+1	4 x MK-84A	4	1 x 110 TRL	
32	F-16C	H-HR+1	4 x MK-84A	↓	1 x 110 TRL	
33	F-16C	H-HR+1	4 x MK-84A	5	1 x 110 TRL	
34	F-16C	H-HR+1	4 x MK-84A	↓	1 x 110 TRL	
35	F-16C	H-HR+1	4 x MK-84A	6	1 x 110 TRL	
36	F-16C	H-HR+1	4 x MK-84A	↓	1 x 110 TRL	
37	F-15E	H-HR+3	8 x CBU-87B/B	1	2 x 141 TRLS	
38	F-15E	H-HR+3	8 x CBU-87B/B	↓	2 x 141 TRLS	
39	F-15E	H-HR+3	8 x CBU-87B/B	2	2 x 141 TRLS	
40	F-15E	H-HR+3	8 x CBU-87B/B	↓	2 x 141 TRLS	
41	F-15E	H-HR+3	8 x CBU-87B/B	3	2 x 141 TRLS	
42	F-15E	H-HR+3	8 x CBU-87B/B	↓	2 x 141 TRLS	
43	F-16C	H-HR+3	4 x CBU-87B/B	4	1 x 141 TRL	
44	F-16C	H-HR+3	4 x CBU-87B/B	↓	1 x 141 TRL	
45	F-16C	H-HR+3	4 x CBU-87B/B	5	1 x 141 TRL	
46	F-16C	H-HR+3	4 x CBU-87B/B	↓	1 x 141 TRL	
47	F-16C	H-HR+3	4 x CBU-87B/B	6	1 x 141 TRL	
48	F-16C	H-HR+3	4 x CBU-87B/B	↓	1 x 141 TRL	
49	F-15E	H-HR+3	4 x GBU-10E/B	1	1 x 110 TRL	
50	F-15E	H-HR+3	4 x GBU-10E/B	↓	1 x 110 TRL	
51	F-15E	H-HR+3	4 x GBU-10E/B	2	1 x 110 TRL	
52	F-15E	H-HR+3	4 x GBU-10E/B	↓	1 x 110 TRL	

ATTACHMENT 3

COMBAT AMMUNITION SYSTEM - BASE/DEPLOYABLE

References. List the references used to develop this attachment. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down. That is, section chief writes element chief's and element chief writes shift supervisor's, etc.

1.1. Element Chief.

1.2. Shift Supervisor.

2. Resources. Identify what resources (personnel per shift, facilities, communication, administrative supplies and ADPE) are needed to perform assigned tasks. These requirements will be consolidated with all the other munitions functions into their respective attachments under the Resources tab.

3. Operations and Requirements. Identify all duties required to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Provide as much detail as possible here to cover all tasks. Remember, you are writing this as much for yourselves as well as for the personnel that will replace you. A few examples of tasks to consider would be: initial reports, shift hours, shift change procedures to ensure all information is passed on, augmenting other functional areas, added security precautions and procedures. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means all inclusive. You will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.4. Phase II Employment.

3.5. Recovery Operations/Redeployment.

4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what exists (i.e., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

ATTACHMENT 4

MUNITIONS OPERATIONS

References. List the references used to develop this attachment. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down. That is, the section chief writes element chief's, element chief writes shift supervisor's, shift supervisor writes build-up area representative's and CAS-D Operator's, etc.

1.1. Element Chief.

1.2. Shift Supervisor.

1.3. Build-Up Area Representatives.

1.4. CAS-D Operator(s).

2. Resources. Identify what resources (personnel per shift, facilities, vehicles, communication, administrative supplies and ADPE) are needed to perform assigned tasks. These requirements will be consolidated with the other munitions functions into their respective attachments under the Resources tab.

3. Operations and Requirements. Identify all duties required to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Provide as much detail as possible here to cover all tasks. Remember, you are writing this as much for yourselves as well as for the personnel that will replace you. A few examples of tasks to consider would be: specific accounting procedures and how upchannel reporting will be performed; CAS-D operations; document control procedures; stockpile management requirements; custody accounts; reporting requirements; shipping and receipt; issue/turn-in processing; inventory requirements; unserviceable procedures; document flow; reconciliation; disposal of unserviceable munitions; assembly lot number procedures; the who's, when's, and where's so procedures can be easily implemented and enforced; primary and alternate communications capabilities; integration of incoming forces; procedures to contact MAJCOMs; shift hours; shift change procedures to ensure all information is passed on; etc. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means all inclusive. You will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.5. Recovery Operations/Redeployment.

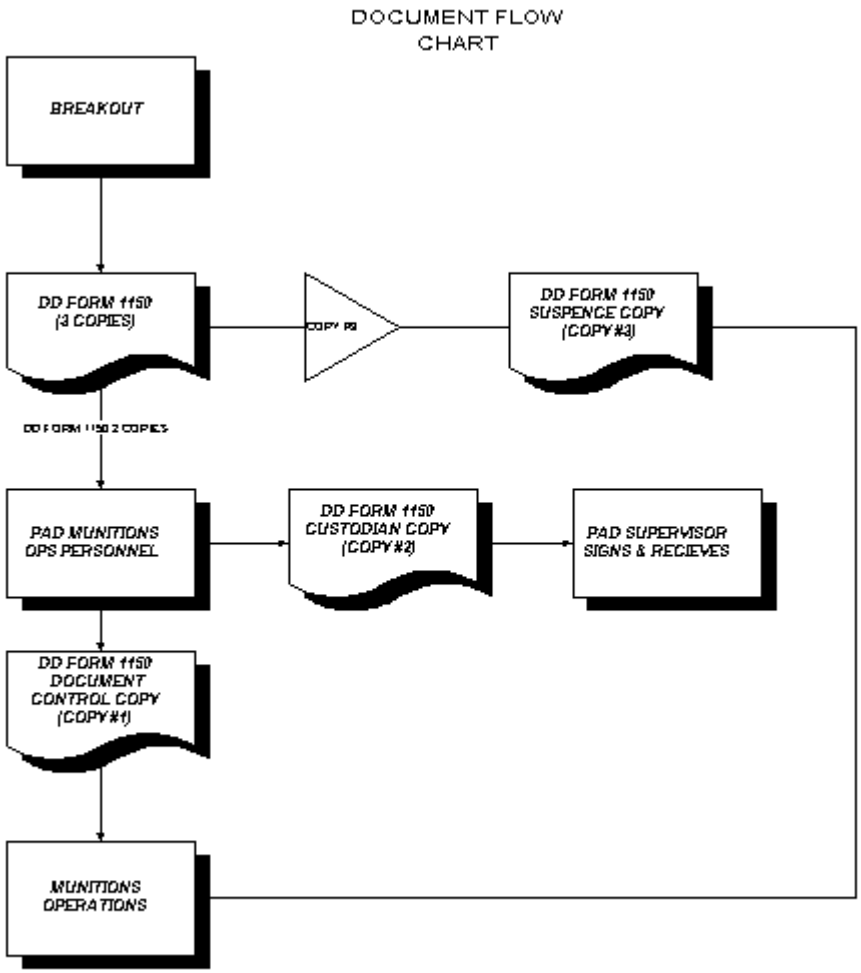
4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state “See Tab N” for what exists (i.e., “operational constraint, shortfall, or LIMFAC”). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

Exhibit:

A - Document Flow Chart

EXHIBIT A

EXAMPLE OF A DOCUMENT FLOW CHART



EXAMPLE

ATTACHMENT 5

STORAGE/BREAKOUT

References. List the references used to develop this attachment. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down. That is, the section chief writes element chief's, element chief writes shift supervisor's, shift supervisor writes dispatcher's and crew chief's, etc.

1.1. Element Chief.

1.2. Shift Supervisor.

1.3. Dispatcher.

1.4. Crew Chief 1.

1.5. Crew Chief 2.

2. Resources. Identify what resources (personnel per shift, facilities, vehicles, AGE, MMHE, special tools and CTKs, communication, administrative supplies and ADPE) are needed to perform assigned tasks. These requirements will be consolidated with the other munitions functions into their respective attachments under the Resources tab.

3. Operations and Requirements. Identify all duties required to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Provide as much detail as possible here to cover all tasks. Remember, you are writing this as much for yourselves as well as for the personnel that will replace you. A few examples of tasks to consider would be: equipment priorities; in/out shipment operations; production area resupply; residue removal and disposition (ship reusable containers, dispose of or maintain for repack of unserviceable and/or unused munitions during recovery/redeployment); prioritized breakout scheme; integration of incoming; specific safety issues; shift hours; and shift change procedures to ensure all information is passed on. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means all inclusive, you will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.4. Phase II Employment.

3.5. Recovery Operations/Redeployment.

4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state “See Tab N” for what exists (i.e., “operational constraint, shortfall, or LIMFAC”). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

Exhibits:

A - Asset Balance Report (Master Storage Plan)

B - Storage Structure Layout

C - Prioritized Breakout Scheme

EXHIBIT A

EXAMPLE OF A ASSET BALANCE REPORT (MASTER STORAGE PLAN)

PREPARED 25 MAY 95 15:31 ASSET BALANCE REPORT BY STRUCTURE PCN
SD078Z64AR
FOR SRAN: FV6000 AND STRUCTURE: 1320

LOCATION TCN	NATIONAL STOCK NUMBER	NOUN	DODIC	HAZ/ NEW COMP GP		LOT NUMBER	C C	QTY	ORG/ SHOP
20A001A001A	1325004279097	FIN ASSEMBLY, BOMB MXU-651/B	F761	.0000	.0	BEA93E002G001	B	76	
20A002A001A	1325011234101	FIN ASSEMBLY, BOMB BSU-84/B	F755	.0000	.0	SERIAL #'S	B	25	
20A003A001A	1325004279099	FIN ASSEMBLY, BOMB MXU-650/B	F763	.0000	.0	BEA93F003G001	B	123	
20A004A001A	1325012305024	CCG, GUIDED BOMB WGU-12 INERT	E042	.0000	.0	SERIAL #'S	B	9	
20A004A002A	1325013561432	G & C WGU-39/B, GBU-24/27/28	EY71	.5630	2.2S	SERIAL #'S	B	15	
20A004A003A	1325012572441	ADAPTER GROUP, ADU-548	CY42	.0000	.0	NONE	B	0	
20A004A003A	1325013791379	ADAPTER GROUP, ADU-769/B	CY19	.0000	.0	NONE	B	24	
20A005A001A	1325000095573	FIN ASSY MK84 W/O LUGS	F607	.0000	.0	BEA93E001G001	B	139	
20A006A001A	1325009076736	ARMING WIRE ASSY	F419	.0000	.0	BEA93H003G001	B	15665	
20A006A002A	1325009076734	ARMING WIRE ASSY	F418	.0000	.0	BEA93H004G001	B	22509	
20A006A002A	1325009076734	ARMING WIRE ASSY	F418	.0000	.0	BEA93H004H001	B	0	
20A006A003A	1325004858868	FIN ASSY BMB MAU-103A/B	F573	.0000	.0	NONE	B	209	
20A007A001A	1325012106714	DEFLECTOR AIR MAU-1971B	CY18	.0000	.0	NONE-0	B	415	
20A007A002A	1325004601306	FIN ASSY BMB MAU-93/B F/MK-82	F664	.0000	.0	MECO-12-12	B	495	
20A008A001A	1325004229023	COUPLER DRIVE ASSY MAU-87D/B	EY91	.0000	.0	BEA93H010G001	B	2719	
20A008A003A	1325004229022	DRIVE ASSY ATU-35/BB	BY29	.0000	.0	BEA93H005G001	B	5719	
20A009A001A	1325001164438	LUG SUSP BOMB THD BASE	G259	.0000	.0	BEA93H014G001	B	538	
20A009A002A	1325001514158	NOSE & RING KIT 2 INCH	EY45	.0000	.0	NONE	B	1420	
20A009A003A	1325006092344	CUP, NOSESUPPORT MK81,82,83,84	FW26	.0000	.0	BEA93H011G001	B	995	
20A009A004A	1325010459022	LANYARD, MAU-162A/B	BY82	.0000	.0	BEA93H008G001	B	9707	
20A009A005A	1325008287478	CLOSING PLUG, MK82/M117	BY52	.0000	.0	NONE	B	1207	
20A010A002B	1325004705419	FIN ASSY BMB MK15 MOD4 F/MK 82	F391	.0000	.0	28-LMP-0872A	B	0	
20A012A002A	1325009224210	FIN ASSY BMB MAU-91B/B, RETARD	F660	.0000	.0	LMP-2-6A	B	0	
20A017A001A	1325012301171	SWIVEL AND LOOP ASSEMBLY	G287	.0000	.0	NONE	B	70841	
20A017A003B	1325001595669	BOOSTER & TAPE ASSY,FZU-2 INRT	BY53	.0000	.0	BEA93H001G001	B	1862	
20A017B001A	1325009417388	SHAFT DRIVE FZE MAU-86/B3	F491	.0000	.0	BEA93H006G001	B	632	
20A017B001B	1325009417390	SHAFT DRIVE FZE MAU-86/B4	F492	.0000	.0	NONE	B	233	
20A017B001C	1325004385755	SHAFT DRIVE MAU-86/B-5	F493	.0000	.0	NONE	B	2211	
20A017B001D	1325002361994	SHAFT DRIVE MAU-86/B-6	F494	.0000	.0	NONE	B	751	
20A017B002A	1325000285817	FERRULE ARMING WIRE	EY21	.0000	.0	NONE	B	43823	
20A017B002B	1325004563490	CLIP SAFETY FZU-18/B	EY74	.0000	.0	NONE	B	3225	
20A017B002C	1325000285815	CLIP SAFETY	FW25	.0000	.0	BEA93H007G001	B	5290	
20A017B003A	1325010156413	STRAP ASSEMBLY, BOMB STORAGE	OY42	.0000	.0	NONE	B	240	
20A017B003B	1325010156413	STRAP ASSEMBLY, BOMB STORAGE	OY42	.0000	.0	NONE	B	289	
20A017C001A	1325013339776AQ	LANYARD, KEVLAR, 30 IN F15E	CY57	.0000	.0	BEA94H002G001	B	136	
20A017C001A	1325013339776AQ	LANYARD, KEVLAR, 30 IN F15E	CY57	.0000	.0	UNK	B	0	
20A017C001B	1325013339774AQ	LANYARD ASSEMBLY, 15 INCH	CY59	.0000	.0	UNK	B	0	

EXHIBIT B

EXAMPLE OF STORAGE STRUCTURE LAYOUT

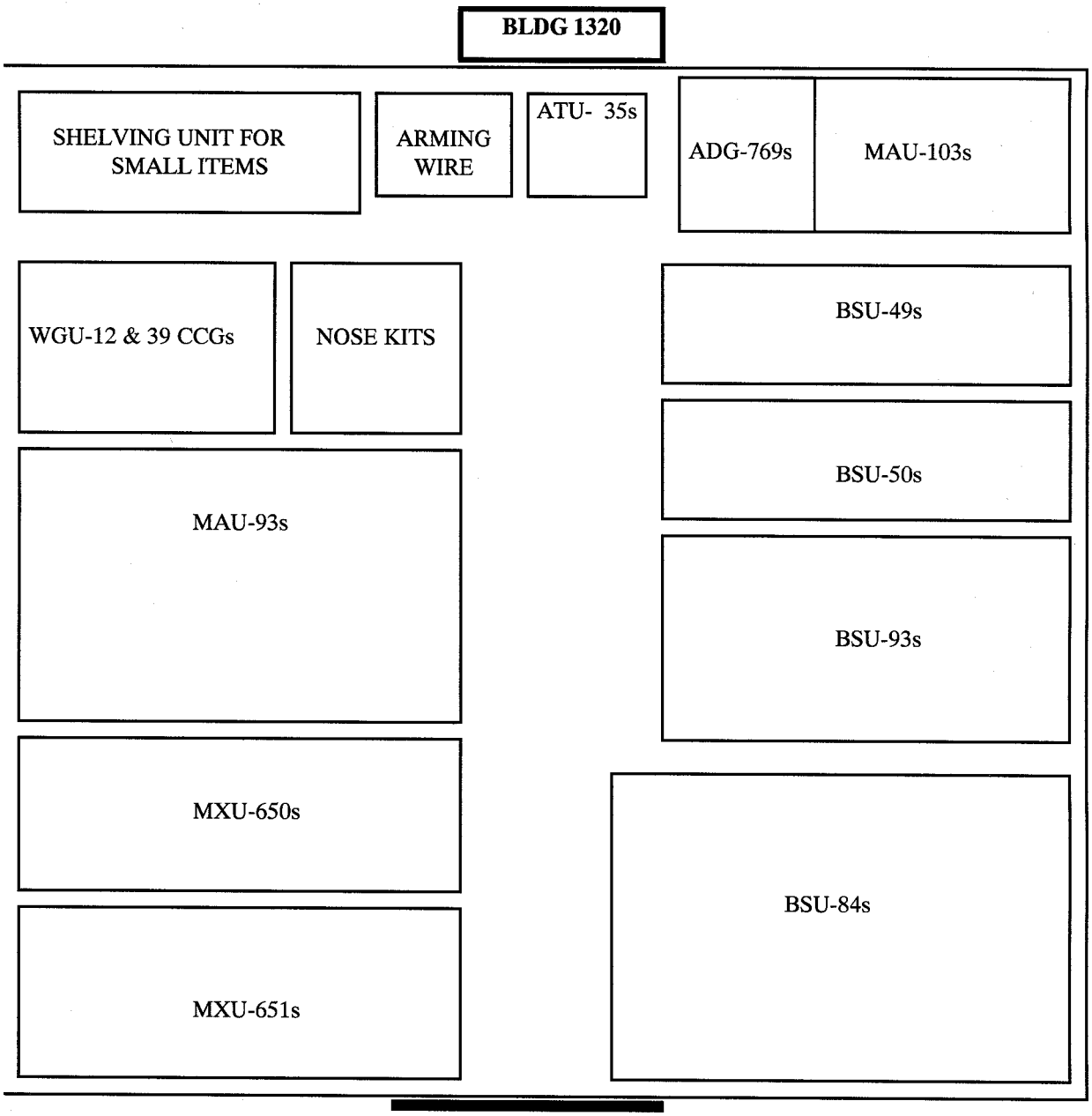


EXHIBIT C

PRIORITIZED BREAKOUT SCHEME

Generated by compiling all the production area's prioritized component listings to develop breakout crew's priorities **by tasking.**

CREW	PRI	LOC	ITEM	QTY REQ	DEL QTY	VEHIC	0730	0745	0800	0815	0830	0845	0900	0915	0930	REM QTY TO DEL	DEL PAD	REMARK
1	1	1320	MXU-651	20	8	40ft Trl			B				D			12	*GBU*	Yarbrough
	1	1320	MAU-93 FIN	60	24	40ft Trl	V		B				D			36	*MAC*	
	2	1314	MAU-169	20	10	40ft Trl	E				B		D			10	*GBU*	
							H											
2	1	1314	FMU-143	20		40ft Trl	I		B				D				*GBU*	Sacco
	2	1314	BLU-109	20	16	40ft Trl	C		B				D			4	*GBU*	
							L											
3	1	1312	M904 FUZE	60		40ft Trl	E		B				D				*MAC*	Anthony
	1	1312	M905 FUZE	60		40ft Trl			B				D				*MAC*	
	1	1312	M147 BOOSTER	60		40ft Trl			B				D				*MAC*	
	1	1312	M148 BOOSTER	60		40ft Trl			B				D				*MAC*	
	1	1312	M9 DELAY (NON)	120		40ft Trl	C		B				D				*MAC*	
	2	1312	MK-82	60	48	40ft Trl	H		B				D			12	*MAC*	
							E											
4	1	1310	MK-339	16		40ft Trl	C		B			D					*CBU*	Richardson
	1	1310	ADU-449	16		40ft Trl	K		B			D					*CBU*	
	2	1310	CBU-52	28		40ft Trl	O		B			D					*CBU*	
							U											
5	1	1320	MAU-86 /B5 SHAFT	60		1.5Ton	T		B		D						*MAC*	Franklin
	1	1320	MAU-87 COUPLER	60		1.5Ton			B		D						*MAC*	
	1	1320	ATU-35 ASSY	60		1.5Ton			B		D						*MAC*	
	2	1320	ARMING WIRE, Bulk	2 rolls		1.5Ton			B		D						*MAC/ CBU*	(1 spool per pad)
	2	1320	FERRULE	2 Bx		1.5Ton			B		D						*MAC/ CBU*	(1 box per pad)
	2	1320	FZU-18/B CLIP	2 Bx		1.5Ton			B		D						*MAC/ CBU*	(1 box per pad)
	2	1320	Swivel & Link, MAU-166	2 Bx		1.5Ton			B		D						*MAC/ CBU*	(1 box per pad)

"B"= BREAKOUT

"D"= DELIVERY

NOTES: ---Crews will deliver unit packs or pallets.

---Additional crew will remain in MSA pulling asset through out initial flush.

---K-Pads will support download of delivers during initial flush.

(DEL)---Delivery quantity determined by unit of pack, LITE boxes and WCDO 4-day requirement.

(REM)---Remaining quantity will be delivered on next delivery.

ATTACHMENT 6

INSPECTION

References. List the references used to develop this attachment. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down**.** That is, the section chief writes element chief's, element chief writes shift supervisor's, and shift supervisor writes crew chief's, etc.

1.1. Element Chief.

1.2. Shift Supervisor.

1.3. Crew Chief 1.

1.4. Crew Chief 2.

2. Resources. Identify what resources (e.g., personnel per shift, facilities, vehicles, AGE, MMHE, TMDE, special tools and CTKs, communication, administrative supplies, ADPE, etc.) are needed to perform assigned tasks. These requirements will be consolidated with the other munitions functions into their respective attachments under the Resources tab.

3. Operations and Requirements. Identify all duties required to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Provide as much detail as possible here to cover all tasks, remember you are writing this as much for yourselves as well as for the personnel that will replace you. A few examples of tasks to consider would be: in/out shipments, turn-ins of unserviceables, issues for base custody accounts, specific safety issues, shift hours, shift change procedures to ensure all information is passed on. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means all inclusive. You will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.4. Phase II Employment.

3.5. Recovery Operations/Redeployment.

4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what exists (e.g., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

ATTACHMENT 7

CONVENTIONAL MAINTENANCE

References. List the references used to develop this attachment. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down. That is, the section chief writes element chief's and element chief writes shift and production area supervisor's, etc.

1.1. Element Supervisor.

1.2. Shift Supervisor.

1.3. General Purpose Bombs Supervisor.

1.4. Guided Bomb Supervisor.

1.5. Cluster Bomb Supervisor.

1.6. Aircraft Ammunition Supervisor.

1.7. Chaff/Fare Supervisor.

2. Resources. Compile all the resources (e.g., personnel per shift, facilities, vehicles, AGE, MMHE, TMDE, special tools and CTKs, communication, administrative supplies and ADPE) needed by the internal production areas to perform assigned tasks. These requirements will be consolidated with the other munitions functions into their respective attachments under the Resources tab.

3. Operations and Requirements. Identify the duties required by the element chief and shift supervisor to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Internal production areas will be addressed in exhibits to this attachment (e.g., general purpose, cluster and guided bombs, aircraft ammunition, etc.). The amount of production sites you will be running dictates the number of exhibits. Use Exhibit A as an example for each bomb production site required. Provide as much detail as possible here to cover all tasks. Remember you are writing this as much for yourselves as well as for the personnel that will replace you. A few examples of tasks to consider would be shift hours, shift change procedures to ensure all information is passed on, and the other issues identified in the internal production areas exhibits. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means all inclusive. You will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.4. Phase II Employment.

3.5. Recovery Operations/Redeployment.

4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state “See Tab N” for what exists (e.g., “operational constraint, shortfall, or LIMFAC”). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

Exhibits:

A - General Purpose, Cluster, Guided Bomb Production

B - Aircraft Ammunition Production, 20MM and 30MM

C - Chaff and Flare Production

EXHIBIT A

GENERAL PURPOSE, CLUSTER, GUIDED BOMB PRODUCTION

References. List the references used to develop this exhibit. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down. That is, the element chief writes operation supervisor's, operation supervisor's writes crew chief's, and crew chief writes assistant's, etc.

1.1. Operation Supervisor.

1.2. Crew Chief.

1.3. Asst. Crew Chief.

2. Resources. Identify what resources are needed to perform assigned tasks (e.g., personnel, vehicle, AGE, MMHE, TMDE, special tools and CTKs, communication, administrative supplies, and ADPE). These requirements will be consolidated for inclusion in the Resources tab. Identify the number of personnel assigned to each shift, shift hours and shift change procedures to ensure all information is passed on.

3. Operations and Requirements. Identify all duties required to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Provide as much detail as possible here to cover all tasks. Remember, you are writing this as much for yourselves as well as for the personnel that will replace you. A few examples of tasks to consider would be production rates, quantifying the number of munitions that can be assembled (learning curve and proficiency) per minute and per hour/24-hour period, net explosives weight (NEW) tracking and reporting procedures, assembly lot number procedures, accountability procedures, integration of incoming forces and augmentees, complete round tracking, personnel break times, residue removal, equipment priorities for initial flush, Priority Build List and a Prioritized Component Listing, specific safety issues, estimated CRC times, shift hours, and shift change procedures to ensure all information is passed on. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means all inclusive. You will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.4. Phase II Employment.

3.5. Recovery Operations/Redeployment.

4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what exists (e.g., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

Exhibits: A1- General Purpose Pad (K-1) Layout.

A2- Priority Build List/Prioritized Component Listing

EXHIBIT A1

EXAMPLE OF GENERAL PURPOSE PAD (K-1) LAYOUT

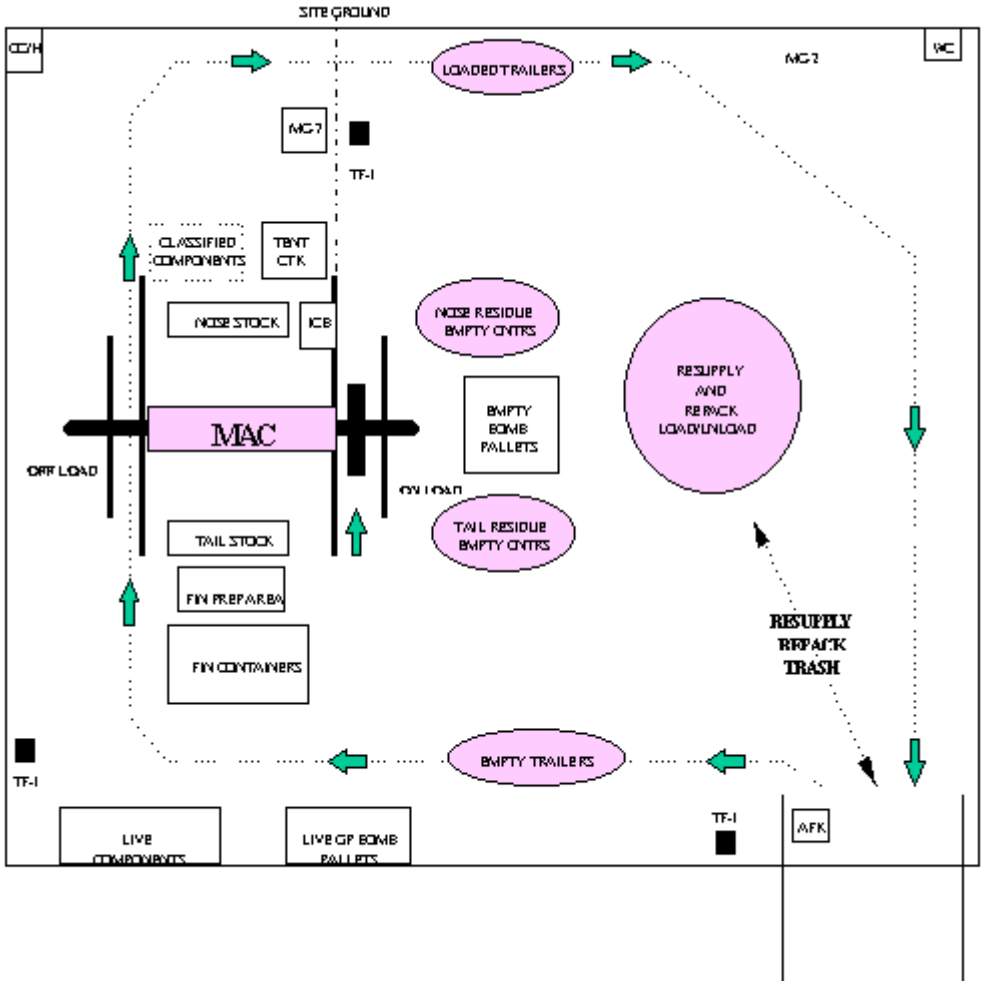


EXHIBIT A2

PRIORITY BUILD LIST/PRIORITIZED COMPONENT LISTING

Generated from Detailed Build Analysis in CAS-D. After assembly crews have prioritized the components in the order they want them delivered, they can place a priority next to the component under priority block. Remember the numbers on the left under the priority build # are not produced by CAS-D. You have to put priorities in after the document is printed.

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*********** UNCLASSIFIED **********
PREPARED 27 SEP 96 08:24              Detailed Build Analysis Report                    PCN SD078Z68BR
On Build Generated  27 SEP 1996  08:13
  Priority Build for Aggregated Selected SRANs Build

PRI#   ITEM               NOUN                                        BUILD RQMT   BUILD CAP  % SUPP   MAX BUILT
0001   BC21H  MK82C          904/905 N/T                                      72           72    100         237
        COMP                 NOUN              DODIC   QTY REQ.     TOT REQ.         ASSETS   BUILD MAX        USED
4 >>>    01   BOMB GP MK82-1 TRITONAL W/LUGS  E485          1           72           1178        1178          72
1 >>>    02   FIN ASSY BMB MAU-93/B F/MK-82   F664          1           72            372         372          72
2 >>>    03   FUZE BOMB NOSE M904E3           F835          1           72            608         608          72
2 >>>    04   FZE BMB TAIL M905(T771)         F989          1           72            497         497          72
         05   ADAPTER BSTR BMB NOSE T45E7     F372          1           72              0           0           0
         05   ADAPTER BSTR BMB NOSE T45E7     F380          1           72              0           0           0
         05   ADAPTER BSTR BMB NOSE T45E7     F386          1           72              0           0           0
2 >>>    05   ADAPTER BSTR BMB NOSE T45E7     F411          1           72           1440        1440          72
         06   ADAPTER BSTR BMB TAIL XM147     F387          1           72              0           0           0
         06   ADAPTER BSTR BMB TAIL XM147     F382          1           72              0           0           0
2 >>>    06   ADAPTER BSTR BMB TAIL XM147     F409          1           72            581         581          72
1 >>>    07   DRIVE ASSY ATU-35/BB            BY29          1           72           3910        3910          72
1 >>>    08   COUPLER DRIVE ASSY MAU-87/B     EY91          1           72           2590        2590          72
1 >>>    09   SHAFT DRIVE MAU-86/B-5          F493          1           72           2158        2158          72
3 >>>    10   ARMING WIRE BULK F/GP BOMBS     BY31         10          720         110000       11000         720
3 >>>    11   FERRULE ARMING WIRE             EY21          2          144          35684       17842         144
         12   SWIVEL & LINK SINGLE MAU-166/A  CY72          2          144              0           0           0
3 >>>    12   SWIVEL & LINK SINGLE MAU-166/A  G287          2          144          36000       18000         144
3 >>>    13   CLIP SAFETY FZU-18/B            EY74          2          144           3081        1540         144
2 >>>    Z0   DELAY ELEM FZE BMB M9 NONDEL    G212          2          144            474         237         144

PRI#   ITEM               NOUN                                        BUILD RQMT   BUILD CAP  % SUPP   MAX BUILT
0002   BC21L  MK82C          113 NS                                           48           48    100         201
        COMP                 NOUN              DODIC   QTY REQ.     TOT REQ.         ASSETS   BUILD MAX        USED
2 >>>    01   BOMB GP MK82-1 TRITONAL W/LUGS  E485          1           48           1106        1106          48
1 >>>    02   FIN ASSY BMB MAU-93/B F/MK-82   F664          1           48            300         300          48
1 >>>    03   FZE PROX BMB NOSE FMU-113/B     F746          1           48            201         201          48
         04   BOOSTER & TAPE ASSY FZU-2/B     FY53          1           48              0           0           0
1 >>>    04   BOOSTER & TAPE ASSY FZU-2/B     BY53          1           48           1812        1812          48

PRI#   ITEM               NOUN                                        BUILD RQMT   BUILD CAP  % SUPP   MAX BUILT
0003   BR41M  MK 84/BSU50 FMU 139A/B  (T)                                     24           24    100          70
        COMP                 NOUN              DODIC   QTY REQ.     TOT REQ.         ASSETS   BUILD MAX        USED
         01   BMB GP 2000LB MK84-4 TRIT W/LG  F275          1           24              0           0           0
2 >>>    01   BMB GP 2000LB MK84-4 TRIT W/LG  F270          1           24            100         100          24
1 >>>    02   RETARDER FIN BSU-50/B F/MK84    GY26          1           24             70          70          24
1 >>>    03   FUZE SET, BOMB FMU-139A/B       G119          1           24            937         937          24
2 >>>    04   NOSE & RING KIT 2 INCH          EY45          1           24           1420        1420          24
2 >>>    05   CUP, NOSESUPPORT MK81,82,83,84  FW26          1           24            996         996          24

END PAGE

*********** UNCLASSIFIED **********
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EXHIBIT B

AIRCRAFT AMMUNITION PRODUCTION, 20MM and 30MM

References. List the references used to develop this exhibit. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down. That is, the element chief writes operation supervisor's, operation supervisor's writes crew chief's, and crew chief writes assistant's, etc.

1.1. Operation Supervisor.

1.2. Crew Chief.

1.3. Asst. Crew Chief.

2. Resources. Identify what resources (personnel per shift, facilities, vehicles, AGE, MMHE, TMDE, special tools and CTKs, communication, administrative supplies, and ADPE) are needed to perform assigned tasks. These requirements will be consolidated with the other munitions functions into their respective attachments under the Resources tab.

3. Operations and Requirements. Identify all duties required to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Provide as much detail as possible here to cover all tasks. Remember, you are writing this as much for yourselves as well as for the personnel that will replace you. A few examples of tasks to consider would include production rates, NEW tracking and reporting procedures, assembly lot number procedures, accountability procedures, integration of incoming forces, residue removal, equipment priorities for initial flush, specific safety issues, shift hours, and shift change procedures to ensure all information is passed on. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means all inclusive. You will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.4. Phase II Employment.

3.5. Recovery Operations/Redeployment.

4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what exists (e.g., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

EXHIBIT C

CHAFF AND FLARE PRODUCTION

References. List the references used to develop this exhibit. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down. That is, the element chief writes operation supervisor's, operation supervisor's writes crew chief's, and crew chief writes assistant's.

1.1. Operation Supervisor.

1.2. Crew Chief.

1.3. Asst. Crew Chief.

2. Resources. Identify what resources (personnel per shift, facilities, vehicles, AGE, MMHE, TMDE, special tools and CTKs, communication, administrative supplies, and ADPE) are needed to perform assigned tasks. These requirements will be consolidated with the other munitions functions into their respective attachments under the Resources tab.

3. Operations and Requirements. Identify all duties required to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Provide as much detail as possible here to cover all tasks. Remember, you are writing this as much for yourselves as well as for the personnel that will replace you A few examples of tasks to consider are production rates, NEW tracking and reporting procedures, assembly lot number procedures, accountability procedures, integration of incoming forces, residue removal, equipment priorities for initial flush, specific safety issues, shift hours, and shift change procedures to ensure all information is passed on. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means all inclusive. You will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.4. Phase II Employment.

3.5. Recovery Operations/Redeployment.

4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what exists (e.g., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

ATTACHMENT 8

PRECISION GUIDED MUNITIONS MAINTENANCE

References. List the references used to develop this attachment. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down. That is, the section chief writes element chief's and element chief writes shift and production area supervisor's.

1.1. Element Supervisor.

1.2. Shift Supervisor.

1.3. Air to Air Production Supervisor.

1.4. Air to Ground Supervisor.

1.5. Guided Bomb Production Supervisor.

2. Resources. Identify what resources (personnel per shift, facilities, vehicles, AGE, MMHE, TMDE, special tools and CTKs, communication, administrative supplies, and ADPE) are needed to perform assigned tasks. These requirements will be consolidated with the other munitions functions into their respective attachments under the Resources tab.

3. Operations and Requirements. Identify the duties required by the element chief and shift supervisor by each to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Internal production areas will be addressed in exhibits to this attachment (i.e. Air-to-Air, Air-to-Ground, etc.). The amount of production sites you will be running dictates the number of exhibits. Use Exhibit A as an example for each production site required. Provide as much detail as possible here to cover all tasks. Remember, you are writing this as much for yourselves as well as for the personnel that will replace you. A few examples of tasks to consider would are shift hours, shift change procedures to ensure all information is passed on, and the other issues identified in the internal production area exhibit. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means all inclusive. You will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.4. Phase II Employment.

3.5. Recovery Operations/Redeployment.

4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what exists (e.g., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

Exhibit:

A Air-to-Air, Air-to-Ground Missile Production.

EXHIBIT A

AIR-TO-AIR, AIR-TO-GROUND MISSILE PRODUCTION

References. List the references used to develop this exhibit. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down. That is, the element chief writes operation supervisor's, operation supervisor's writes crew chief's, and crew chief writes assistant's.

1.1. Operation Supervisor.

1.2. Crew Chief.

1.3. Asst. Crew Chief.

2. Resources. Identify what resources (personnel per shift, facilities, vehicles, AGE, MMHE, TMDE, special tools and CTKs, communication, administrative supplies, and ADPE) are needed to perform assigned tasks. These requirements will be consolidated with the other munitions functions into their respective attachments under the Resources tab.

3. Operations and Requirements. Identify all duties required to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Provide as much detail as possible here to cover all tasks. Remember, you are writing this as much for yourselves as well as for the personnel that will replace you. A few examples of tasks to consider include production rates (if required), NEW tracking and reporting procedures, accountability procedures, integration of incoming forces, personnel break times, residue removal, equipment priorities for initial flush, specific safety issues, swap out of guidance units from training missiles for use on live missiles, shift hours, breakout and upload requirements, and shift change procedures to ensure all information is passed on. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means all inclusive. You will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.4. Phase II Employment.

3.5. Recovery Operations/Redeployment.

3.6. Other.

4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what exists (e.g., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

Exhibit :

A1 Breakout/Assembly Layout (See General Purpose Pad (K-1) Layout).

ATTACHMENT 9

MUNITIONS DELIVERY

References. List the references used to develop this attachment. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down. That is, the section chief writes element chief's, element chief writes shift supervisor's, line expediter's, and line drivers'.

1.1. Element Chief.

1.2. Shift Supervisor.

1.3. Line Expediter(s)

1.4. L/D 1.

1.5. L/D 2.

2. Resources. Identify what resources (personnel per shift, facilities, vehicles, MMHE, CTKs (quick fix kit), communication, administrative supplies and ADPE) are needed to perform assigned tasks. These requirements will be consolidated with the other munitions functions into their respective attachments under the Resources tab.

3. Operations and Requirements. Identify all duties required to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Provide as much detail as possible here to cover all tasks. Remember, you are writing this as much for yourselves as well as for the personnel that will replace you. A few examples of tasks to consider are equipment priorities for delivery, quick fix procedures and kits, initial trailer configurations (see Munitions Control's exhibit for example), accountability procedures, integration of augmentees, specific safety issues, shift hours, and shift change procedures to ensure all information is passed on. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means all inclusive. You will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.4. Phase II Employment.

3.5. Recovery Operations/Redeployment.

4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what (e.g., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

Exhibit:

A - Equipment Flow Plan

EXHIBIT A

EQUIPMENT FLOW PLAN

PRIORITIZED EQUIPMENT FLOW						
DRIVER	**EQUIPMENT**	**INCREMENT**	**LOAD**	**DELIVERY LOCATION**	**NOTES**	**PRIORITY**
LINE D-1	3 X MHU-110	A1-0014	TRIPLE STACK	K1		1
	3 X MHU 110	A1-0015	TRIPLE STACK	K1		
LINE D-2	3 X MHU-110	A1-0016	TRIPLE STACK	K1		1
	3 X MHU 141	A1-0009	TRIPLE STACK	K1		
LINE D-3	3 X MHU-141	A1-0010	TRIPLE STACK	K1		1
	3 X MHU 141	A1-0011	TRIPLE STACK	K1		
LINE D-4	3 X MHU-141	A1-0012	TRIPLE STACK	K1		1
	3 X MHU 141	A1-0013	TRIPLE STACK	K1		
LINE D-5	MHU-110	A1-0004	MAC	K1		1
	MHU-110	A1-0017	CHOCK, RAILS, TROLLEYS	K1		
LINE D-6	MHU-110	A1-0005	MAC	K2	2	1
	MHU-141	A1-0002	CTKs (W/MOB BINS, MAC MOB BOX)	K2, K1		
LINE D-1	MHU-110	A1-0001	CTKs	K2	1	2
	MHU-110	A1-0008	TENTS	K1, K2	3	
LINE D-2	MHU-110	A1-0006	TRAILER RAILS	K1		2
	MHU-110	A1-0007	DUNNAGE	K2		
LINE D-3	10 K Forklift	A1-0035	10K Forklift	K#		2
LINE D-4	MC-7	A1-0063	MC-7	K1		2
	MC-7	A1-0064	MC-7	K2		
LINE D-4	MC-2	A1-0060	MC-2	K1		2
	MC-2	A1-0061	MC-2	K2		

NOTES:

1. Proceed to K1 first. CTK BU1 and majority of dunnage is downloaded for CBU crew.

2. Proceed to K1 first. Proceed to K2 and drop off MHU-110 with rails. Request position for MHU-141 from Munitions Control.

3. Deliver 1 tent to K1 first. Proceed to K2 and deliver 1 tent, and drop MHU-110 with trailer accessories. Request position for MHU-110 from Munitions Control.

ALL DRIVERS WILL TAKE ALL AGE TO BE REFUELED AND TOP OFF THEIR VEHICLES WITH FUEL ASAP AFTER INITIAL FLUSH HAS OCCURRED.

ATTACHMENT 10

EQUIPMENT MAINTENANCE

References. List the references used to develop this attachment. Include instructions, technical orders, etc.

1. Responsibilities. Outline specific responsibilities required to support the munitions tasking. Responsibilities should be written from the top down. That is, the section chief writes element chief's, element chief writes shift supervisor's and worker's.

1.1. Element Chief.

1.2. Shift Supervisor.

1.3. Crew Chief 1.

1.4. Crew Chief 2.

2. Resources. Identify what resources (personnel per shift, facilities, vehicles, AGE, MMHE, TMDE, special tools and CTKs, communication, administrative supplies, and ADPE) are needed to perform assigned tasks. These requirements will be consolidated with the other munitions functions into their respective attachments under the Resources tab.

3. Operations and Requirements. Identify all duties required to accomplish those major responsibilities and actions identified in the Operations to be Conducted tab. Provide as much detail as possible here to cover all tasks. Remember, you are writing this as much for yourselves as well as for the personnel that will replace you. A few examples of tasks to consider include specific safety issues, personnel break times, integration of incoming forces, spare parts, shift hours, shift change procedures to ensure all information is passed on. Below are paragraphs that correlate to the sequence of operations to be conducted. These paragraphs are by no means all inclusive, you will need to determine what you want in each paragraph and then develop subparagraphs to further detail the tasks and operations required to meet your unit's needs.

3.1. Phase I Generation.

3.2. Phase I Deployment.

3.3. Phase I Regeneration.

3.4. Phase II Employment.

3.5. Recovery Operations/Redeployment.

4. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what exists (e.g., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

TAB F

COMMAND, CONTROL, COMMUNICATION AND COMPUTER (C4)

References. List applicable References.

1. Operations and Requirements. This section should address all C4. Identify lines of authority and communication requirements, capabilities and procedures needed to effectively accomplish command and control. Include information about radios (who will provide them - home base or receiving unit, net and frequency assignments, frequency change requirements), telephones/faxes (secure or not), comm-out procedures, and computer resources. Below are examples of subparagraphs that could be used. You will need to determine what subparagraphs fit your unit's needs. Work closely with your communications agency while developing this section.

1.1. Lines of Authority. All munitions operations under the authority of the Munitions Flight Commander/Chief. Munitions Control has been delegated full authority to direct all munitions support functions with the following caveats:

1.2. Munitions Production. As a goal, Munitions Control will direct all munitions loads to be on the flightline at least 45 minutes prior to station time. Munitions Control will notify AMMO 2 anytime a munitions load hasn't departed the munitions area at least 30 minutes prior to station time.

1.3. Munitions Movements. Munitions Control will be notified prior to, and at the conclusion of, all munitions movements by all drivers.

1.4. Situations/Problem Areas. Munitions Control will continuously assess the munitions support posture in order to discern potential difficulties. At the earliest point that our ability to support the mission becomes questionable they will notify supervision.

2. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what exists (e.g., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

TAB G

MUNITIONS IN-/OUT-SHIPMENTS

References. List references.

1. Operations and Requirements. This tab should contain data concerning In/Out-shipment details. A few considerations would be item(s), quantities, arrival or ship date, mode (land, sea, air), location (port, depot), by rail or truck, who is responsible for transportation, type of shipment (ISO, STAMP/STRAPP), blocking and bracing requirements, security requirements, etc. It is essential to identify what resources must be available when resupply arrives. Even if resupply information is incomplete, you can get an idea of what to expect by accomplishing the detailed build analysis report mentioned in the Air Munitions Requirements and, depending on where your theater of operations are, contacting either the Regional or Theater Ammunition Control Point (RACP or TACP).

2. Responsibilities. Identify the major responsibilities for In-/Out-shipment. These responsibilities should include other base agencies such as airfield management, transportation and security police for escorts. Once responsibilities are defined, the required tasks should be included in each functional area.

2.1. Munitions Control.

2.2. Munitions Operations.

2.3. Storage.

2.4. Inspection.

3. Operational Constraints/Shortfalls/LIMFACs. If any exist, state “See Tab N” for what exists (e.g., “operational constraint, shortfall, or LIMFAC”). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

TAB H

EXPLOSIVE ORDNANCE DISPOSAL (EOD)

Reference. List references.

1. Operation And Requirements. This section identifies the type of EOD support the unit can expect to receive, if needed. Whereas munitions units developed CMPs, EOD units develop Mission Planning Folders (MPF) - a similar document that identifies how they will operate during contingencies. This is mentioned to clarify the need for this section. The planner should identify the support needed and not be concerned with building an MPF for EOD. For more information, refer to the plan that tasks EOD to provide your support. Consider contact information, dud/safe munitions holding area, conventional munitions disposal area(s), chemical munitions disposal area(s), Emergency Destruction of Material (EDM) assistance, and other munitions support requirements. **As new munitions are tasked, ensure EOD is notified so they can get required equipment/tech data to handle weapon.**

2. Operational Constraints/Shortfalls/LIMFACs. If any exist, state “See Tab N” for what exists (e.g., “operational constraint, shortfall, or LIMFAC”). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

TAB J

SAFETY

References. List references.

1. Operations and Requirements. This section describes those safety requirements and tasks necessary to support mission accomplishment. It is not intended to duplicate the specific safety requirements and precautions listed in the individual functional areas. Since most operations will be conducted under combat conditions, it is essential that all safety aspects of the operation be identified and controlled as much as possible. Safety awareness will help reduce accidental injury to personnel and loss of other resources. Identify responsibilities for explosive safety and ground safety procedures, and any other hazards that may be encountered. Describe who and how risk assessment will be accomplished. Determine how explosives siting will be accomplished. Work closely with weapons and ground safety agencies while developing this section.

1.1. Safety and Mishap Prevention.

1.2. General Safety Brief.

1.3. Risk Assessment.

2. Operational Constraints/Shortfalls/LIMFACs. If any exist, state “See Tab N” for what exists (e.g., “operational constraint, shortfall, or LIMFAC”). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

TAB K

SECURITY

References. List References.

1. Operations and Requirements. This tab address responsibilities assumed by the unit during a contingency. It should not duplicate information already contained in Part 1. Describe additional security requirements and responsibilities associated with the control and protection of resources such as if 2W0X1 personnel assume responsibilities for perimeter defense, entry control, armed escort for off-base and possibly on-base munitions movements, etc. Any functional area specific responsibility or requirement should be listed in the respective functional area's portion. Work closely with your force protection agency while developing this section to ensure the latest philosophies and practices are incorporated.

2. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what exists (e.g., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

TAB L

ABILITY TO SURVIVE AND OPERATE (ATSO)

References. List references.

1. Operations and Requirements. ATSO is a program designed to provide Air Force installation commanders with the capability to destroy attacking enemy air and ground forces, to limit damage, and to survive, recover, and continue to operate under different conditions and geographic locations. The overall objective of ATSO is to sustain sortie generation capability to continue employment of air power. The planner should identify critical assets and describe methods to protect them. Three areas identified by MAJCOMs as needing attention include: camouflage, concealment and deception (CCD); dispersal; and decontamination. In addition, consider meals, water, transportation to and from duty, and rest quarters. Any functional area specific responsibility or requirement should be listed in the respective functional area's portion. Work closely with your local Civil Engineering Readiness function while developing this section.

1.1. Camouflage, Concealment and Deception (CCD). Identify the resources that must be CCD'd and the methods used. This may include netting buildings or vehicles, application of tone-down paint to blend equipment with the terrain, or disguising potential targets.

1.2. Dispersal. Efforts to disperse assets will force the enemy to strike in different places to completely destroy all intended targets. Identify procedures for dispersal of munitions, equipment, vehicles and personnel.

1.3. Decontamination/Post-Attack Procedures. Decontamination is associated with base recovery operations and must be an expedient process for removing contaminated material (chemical or radioactive) from those assets needed to continue operations. Post-attack procedures include assigning teams to check for damage and casualties, and marking unexploded ordnance. Identify responsibilities, procedures and resources required.

1.4. Meals/Water. Identify who is responsible for picking up MREs, where they are picked up from, when and how will they be distributed (by functional area, crew, individual, etc.). Also how, where, and who is responsible for distributing water.

1.5. Transportation. Identify who is responsible for and how personnel will be transported to and from their place of duty and resting quarters.

1.6. Quarters. Identify what will be provided and where personnel will rest.

2. Operational Constraints/Shortfalls/LIMFACs. If any exist, state "See Tab N" for what exists (e.g., "operational constraint, shortfall, or LIMFAC"). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

TAB M

EMERGENCY DESTRUCTION OF MATERIEL (EDM)

References. List references.

1. Responsibilities. EDM is the final action taken to ensure assigned classified munitions and material do not fall into the hands of unauthorized forces. Identify the responsibilities of each agency and note whether overall responsibility rests with home base or the deploying unit.

1.1. Munitions Functions.

1.2. Support Agencies. Identify the responsibilities for all required support from outside agencies as well as agencies needing assistance in destruction of their classified materials.

1.3. Security Police.

1.4. EOD.

2. Operations and Requirements. A good EDM program requires a plan on how to conduct operations and that all personnel be trained and knowledgeable of their duties and responsibilities. Developing a local checklist is the best way to meet this requirement. Describe procedures on how to destroy munitions if an emergency arises. MAJCOMs should provide specific guidance for their units on an effective EDM. Consider as a minimum required resources to include demolition assets; material and equipment; demolition material locations; priority of assets that need to be destroyed; safety briefings; and destruction methods. Your local EOD shop can help you immensely!

3. Operational Constraints/Shortfalls/LIMFACs. If any exist, state “See Tab N” for what exists (e.g., “operational constraint, shortfall, or LIMFAC”). Refer to Tab N for actions that must take place when an operational constraint, shortfall or LIMFAC is identified.

TAB N

CONSOLIDATED OPERATIONAL CONSTRAINTS, SHORTFALLS, AND LIMFACS

1. General. This tab identifies all LIMFACS associated with this plan.

2. Operational Constraints and Shortfalls. Assign a local tracking number, office of primary responsibility (OPR), and point of contact (POC), for each operational constraint and shortfall. Identify the factor or condition that exists, impact assessment, workaround, status of efforts to resolve it, and the estimated completion date (ECD).

- **Tracking number**
- POC
- Impact assessment
- Status
- **OPR**
- Factor or condition that exists
- Work around
- ECD

3. LIMFAC. LIMFACs will be forwarded to the wing for consolidation into the wing's LIMFAC file. Identify the MAJCOM or wing tracking number with OPR and POC, the unit OPR and POC, the factor or condition that exists, impact assessment, status of efforts to resolve it, an the estimated completion date (ECD).

- **MAJCOM/Wing Tracking number**
- MAJCOM/Wing POC
- Unit POC
- Impact assessment
- ECD
- **MAJCOM/Wing OPR**
- Unit OPR
- Factor or condition that exists
- Status

Attachment 8

SITE SURVEY CHECK LIST

1. POINT OF DEBARKATION:

1.1. Is it at the forward operating location (FOL)?

1.2. What distance must be traveled and how long will it take?

1.3. What mode of transportation will be used?

1.3.1. Plane?

1.3.2. Bus?

1.3.3. Ship?

1.3.4. Train?

1.3.5. Auto?

1.4. Will anyone meet us upon arrival?

2. BUILDINGS:

2.1. How many buildings and what types (i.e., maintenance, admin.) will we have available?

2.2. What kind of power sources are available?

2.2.1. Is a converter needed?

2.2.2. Is a power supply (TF-1, NF-2) needed?

2.2.3. What kind of adapter plugs do we need? (3 prong, 2 round, etc.)

2.3. How big are the maintenance, assembly and inspection bays?

2.3.1. Sq. ft_____(if applicable)

2.3.2. Height_____(if applicable)

2.3.3. Width_____(if applicable)

2.3.4. Length_____(if applicable)

2.4. How many bays/offices are in the buildings?

2.5. How big are the entrance doors to the bays? (Width?_____Height?_____)

2.6. Are copies of building blueprints available?

2.7. What is the authorized Net Explosive Weight (NEW) of the maintenance buildings?

2.8. What can the buildings be used for?

2.9. What is established for Munitions Control?

2.9.1. Radios?

2.9.2. Control Boards?

2.9.3. Environment of room?

2.9.4. Emergency Checklists?

2.9.5. What type of furniture is in place?

3. MAINTENANCE ASSEMBLY PADS:

3.1. How big is the work area? (Sq. Ft_____Length_____Width_____)

3.2. What kind of power source is available?

3.2.1. Is a converter needed?

3.2.2. Is a power supply (TF-1, NF-2) needed?

3.3. Is lightning protection required and in place?

3.4. What is the NEW authorization?

3.5. How far is it to the flightline?

3.6. What type of surface is the pad? (gravel, concrete, pavement, PSP/AM-2, etc.)?

3.7. Is prepositioned dunnage in place?

3.8. Are trash bins available?

3.9. Where will munitions residue be put?

3.10. Is equipment available to transport the munitions residue?

3.11. Are the assembly pads barricaded?

3.12. Are the assembly pads covered?

3.13. What kind of access do the assembly pads have (narrow roads, two entrances, etc.)?

3.14. Are there personnel break areas out of the weather?

3.15. Are there any local regulations governing explosive operations?

4. STORAGE:

4.1. How big are the igloos or storage pads?

4.2. Are the igloos lighted/ventilated?

4.3. Are the igloos single or double door?

4.3.1. How wide are the doors?

4.3.2. How tall are the doors?

4.3.3. Will all the equipment fit through the doors?

4.4. What is NEW allowance of the storage locations?

4.5. How far is to the buildup sites from the storage locations?

4.6. Where are the keys kept to the storage structures?

4.7. Is there a master storage plan? If so, who has it, and is it current?

4.8. Are there any complete round igloos? If so, what types of configurations?

4.9. What type of surface is in front of the structures?

4.10. How large is the pad in front of the igloos? (Length_____Width_____)

4.11. How many igloos are there?

4.12. What type of igloos are there?

4.13. Are there any open storage areas?

4.14. Is there more than one exit from the storage area?

4.15. Are there plans to construct another exit?

4.16. Are there any local regulations that govern storage of explosives?

5. FLIGHTLINE DELIVERY:

5.1. How far is it to the flightline?

5.2. Is there a holding area on the flightline?

5.2.1. Is there dunnage available?

5.2.2. Are there Y stands available?

5.2.3. What is the NEW authorization?

5.3. What type of aircraft structures will have to be delivered to?

5.3.1. Will munitions be prepositioned in them?

5.3.2. What is the NEW limits?

5.3.3. Is vault storage available?

5.3.4. What is the layout of the structure?

5.3.5. Are pantographs available for refueling?

6. ROADS:

6.1. How are they surfaced?

6.2. What condition are the roads in?

6.3. What is the weight capacity?

6.4. How wide are the roads?

6.4.1. Narrow bridges?

(Length_____Width_____Wt_____Cap____)

6.4.2. Are there any sharp corners? Can a 40 ft trailer make the turns?

6.4.3. Are there any steep grades?

6.5. Can we get maps?

6.5.1. Chart?

6.5.2. Topographic?

6.6. Are there any hazards such as:

6.6.1. Mudslides?

6.6.2. Rockslides?

6.6.3. Floods?

6.6.4. Snow/Ice?

6.6.5. Frost boils?

6.7. Is there a security problem, are escorts required?

6.8. Does the route go through populated areas or towns?

6.9. Do farm animals frequently cross/jam roads?

6.10. Are there any local regulations governing transportation of munitions?

7. EQUIPMENT:

7.1. How many trailers are in place?

7.1.1. What conditions are the trailers in?

7.1.2. What type of trailers are there?

7.1.2.1. MHU 110?

7.1.2.2. MHU 141?

7.1.2.3. 40 ft trailer?

7.1.2.4. 25 ft trailer?

7.1.2.5. MHU 85?

7.1.2.6. 12M?

7.1.3. How many trailers must be brought?

7.1.4. How are trailers configured (stacked, railed, etc.)?

7.1.4.1. Do we need tie down straps?

7.1.4.2. Are the 40 ft trailers railed?

7.1.4.3. Are there enough chains and binders?

7.1.4.5. Are there missile trees available?

7.1.4.6. Is GBU trailer equipment available?

7.1.5. Is there a supply of parts to do maintenance on the trailers? If not, should a spare parts kit be brought?

7.2. What is the type/condition of vehicles in place? What type transmissions do they have? Do they have pintle hooks? Are they properly wired for electrical hook-ups?

7.2.1. Towing vehicles:

7.2.1.1. Bobtails.

7.2.1.2. 5 & 10 ton tractors.

7.2.1.3. Coleman tugs.

7.2.1.4. Farm tractors.

7.2.1.5. Other.

7.2.2. Forklifts:

7.2.2.1. Electric, gas, diesel.

7.2.2.2. 4000 LB.

7.2.2.3. 6000 LB.

7.2.2.4. 463L.

7.2.2.5. Rough terrain.

7.2.2.6. All terrain.

7.2.2.7. Other.

7.2.3. Crane:

7.2.3.1. LRT 100.

7.2.3.2. H-11.

7.2.3.3. Other.

7.2.4. General Purpose:

7.2.4.1. Pickups:

7.2.4.1.1. 1/4 ton.

7.2.4.1.2. 1/2 ton.

7.2.4.1.3. 2 or 4 wheel drive.

7.2.4.2. Cargo trucks:

7.2.4.2.1. 1 1/2 ton.

7.2.4.2.2. 2 1/2 ton.

7.2.5. Buses:

7.2.5.1. 29 PAX.

7.2.5.2. 44 PAX.

7.2.5.3. Civilian.

7.2.6. AGE:

7.2.6.1. Jammers:

7.2.6.1.1. MJ-1.

7.2.6.1.2. MHU-83.

7.2.6.1.3. Are the adapters present (booms, hooks, fork adapter, etc.)?

7.2.6.2. Lighting/power source:

7.2.6.2.1. TF-1.

7.2.6.2.2. NF-2.

7.2.6.2.3. Generator with light set.

7.2.6.2.4. Other.

7.2.6.3. Air compressors:

7.2.6.3.1. MC-2.

7.2.6.3.2. MC-7.

7.2.6.3.3. Other.

7.2.6.4. Heaters.

7.2.7. Fuel Source:

7.2.7.1. Are there bowsers?

7.2.7.2. Are there bladders?

7.2.7.3. Is there a service station?

7.2.7.4. Is there a fuel source in the munitions storage area? If not, can one be sited there?

7.2.7.5. How far is it to the service station?

8. RESUPPLY:

8.1. How will resupply arrive?

8.1.1. Train? If so, what type of rail cars?

8.1.2. Truck? if so:

8.1.2.1. What type of trailers?

8.1.2.2. What type of containers?

8.1.3. Plane?

8.1.4. Ship?

8.2. Who will transport it (another service, local nationals, allies, etc.)?

8.3. How far does resupply have to be transported?

8.4. Who will download resupply?

8.5. Will any special equipment be required to transport, download or handle the munitions?

9. COMMUNICATIONS:

9.1. Are telephones available? If so, how many?

9.2. How good is the telephone system (reliable, secure, etc.)?

9.3. Are field phones required?

9.4. Are radios compatible with those at FOL?

9.4.1. Are they on the same frequency?

9.4.2. How many should be taken?

9.4.3. Are the mobility radio frequencies OK for this country?

9.5. Is a radio transmitter repeater necessary?

9.6. Is there an established communications system?

9.7. Are antennas available/compatible with radios?

10. CAMOUFLAGE AND DECEPTION:

10.1. Are camouflage nets required?

10.1.1. How many?

10.1.2. What colors?

10.1.3. What type?

10.2. What will require concealment?

11. CHEMICAL/DECON:

11.1. Where are the chemical/decon areas located?

11.2. Will "Apple Orchards" be used? If so, where?

11.3. What decon gear must be taken?

12. SECURITY:

12.1. Should personnel be armed?

12.1.1. What type of weapons?

12.1.2. Where will weapons be stored?

12.2. Are there any known or suspected security risk areas located around the munitions area? If so, where are they?

12.3. Is the delivery route subject to ground attacks?

12.4. Are the maintenance/assembly sites located in a secure area?

12.5. Are attack shelters/bunkers available?

13. HOUSING:

13.1. Are barracks available?

13.1.1. How big are they?

13.1.2. Do buildings have heating/cooling systems?

13.1.3. Are indoor showers/latrines available?

13.2. Are there enough barracks?

13.3. Will personnel have to live in tents?

13.4. How far is to the work area from the living area?

13.5. Is transportation provided to the work area?

13.6. Where on base is the living area?

14. FOOD:

14.1. Are military dining facilities available?

14.2. Will personnel be required to eat MREs?

14.3. Are food and water available on the economy?

14.3.1. Where are dining facilities located?

14.3.2. Where is water available? (wells, water bowsers, etc.)

14.3.2.1. Is water plentiful?

14.3.2.2. Is water drinkable?

14.3.3. Is transportation available/needed to transport personnel to/from work area for chow?

15. TYPES OF BASE FACILITIES AVAILABLE:

15.1. BX?

15.2. Commissary?

15.3. Hospital/Clinics?

15.3.1. How far are they away from the work areas?

15.3.2. Do they have first aid kits available. If so, what type?

15.4. Club?

15.5. Gym?

15.6. Chapel?

15.7. Off duty recreation?

15.8. Legal office?

15.9. Finance office?

15.10. Travel/SATO office?

15.11. Vehicle maintenance?

15.12. Civil Engineers?

15.13. Radio maintenance?

16. LOCAL ENVIRONMENT:

16.1. How far is it to the closest town?

16.2. What is the type of the terrain?

16.2.1. Mountains?

16.2.2. Ocean?

16.2.3. Desert?

16.2.4. Swamp?

16.3. Are there any severe temperature/weather problems?

16.3.1. Are there four seasons?

16.3.2. Does it get extremely hot or cold?

16.3.3. Is excessively dry or wet?

16.4. What is the relationship with local nationals?

16.5. Is local national labor involved in shipping, operations or maintenance? If so, to what extent?